1981

Statistical Summary of the Mineral Industry in Canada

In January 1979, the responsibility for Canadian mineral statistics was transferred from Statistics Canada to the Department of Energy, Mines and Resources. The first annual statistical report of this nature on the Canadian mineral industry was published by the Geological and Natural History Survey of Canada in 1886 and later by the Mines Branch of the Department of Mines until 1920. In 1921, the Dominion Bureau of Statistics, later Statistics Canada, assumed the responsibility and continued to publish the reports until 1978.

The statistical material contained in this summary was principally derived from surveys conducted by the Information Systems Division of the Mineral Policy Sector of Energy, Mines and Resources Canada.

The statistical survey program of Energy, Mines and Resources Canada is conducted jointly with the provincial governments and Statistics Canada. This joint program is intended to minimize the reporting burden on the mineral companies. The cooperation of the companies that provide information is greatly appreciated. Without this cooperation, a statistical report of this nature would not be possible. International mineral statistics contained in this summary are derived from the U.S. Bureau of Mines, The American Bureau of Metal Statistics, The World Bureau of Metal Statistics, **Metals Week, Engineering and Mining Journal**, The United Nations and the Organization for Economic Co-operation and Development (OECD).

This statistical summary of the mineral industry in Canada for the year 1981 was prepared by J.T. Brennan and staff, Statistics Section, Mineral Policy Sector, Energy, Mines and Resources Canada, Ottawa. Telephone (613) 995-9466.

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		1967	1968	1969	1970	1971
Gross national product, current dollars	($ million)	66,409	72,586	79,815	85,685	94,450
Gross national product, constant dollars (1971 = 100)	"	77,344	81,864	86,225	88,390	94,450
Value of manufacturing industry shipments	"	38,955	42,062	45,930	46,381	50,276
Value of mineral production	"	4,381	4,722	4,734	5,722	5,963
Merchandise exports	"	11,112	13,270	14,498	16,401	17,397
Merchandise imports	"	10,873	12,360[r]	14,130	13,952	15,618[r]
Balance of payments, current account	"	-499	-97	-917	+1,106	+431
Corporation profits before taxes	"	6,823	7,742	8,294	7,699	8,681
Capital investment current dollars	"	15,348	15,455	16,927	17,798	20,184
Capital investment, constant dollars (1971 = 100)	"	17,571	17,628	18,498	18,635	20,184
Population	000's	20,378	20,701	21,001	21,297	21,568
Labour force	"	7,747[r]	7,951[r]	8,194[r]	8,395	8,639
Employed	"	7,451[r]	7,593[r]	7,832[r]	7,919	8,104
Unemployed	"	296[r]	358[r]	362[r]	476	535
Unemployment rate	%	3.8[r]	4.5[r]	4.4[r]	5.7	6.2
Employment index	1961=100	122.6	122.7	127.0	127.1	127.8
Labour income	($ million)	35,303	38,444	43,065	46,706	51,528
Index industrial production[r]	1971=100	82.3	87.6	93.6	94.9	100.0
Index manufacturing production[r]	"	83.9	89.1	95.8	94.5	100.0
Index mining production[r]	"	79.9	86.2	86.9	98.7	100.0
Index gross domestic product[r]	"	82.3	86.9	92.2	94.4	100.0
Consumer price index	1971=100	86.5	90.0	94.1	97.2	100.0

[p] Preliminary; [r] Revised.

INDICATORS, 1967-81

1972	1973	1974	1975	1976	1977	1978	1979	1980	1981P
105,234	123,560	147,528	165,343	191,031	208,868r	230,490r	261,576r	291,869	331,338
100,248	107,812	111,678	113,005	119,249	121,762r	126,191r	129,850r	130,467	134,540
56,191	66,674	82,455	88,427	98,076	109,747	129,019	152,133	165,985	188,212
6,408	8,370	11,754	13,347	15,693	18,473	20,261	26,081	31,882	33,000
19,671	24,838	31,739	32,587	37,651	43,685	52,259	64,317	74,446	81,203
18,669	23,325	31,722	34,716r	37,494	42,363	50,108r	62,871	69,274	79,129
-386	+108	-1,460	-4,757	-3,842	-4,301	-4,935	-4,962r	-1,906	-5,346
10,799	15,417	20,062	19,663	19,985	21,090	25,360	34,884	37,172	33,856
22,218	26,618	32,882	38,216	43,636	46,597	50,360	58,355	66,193	78,512
21,242	23,551	24,927	25,694	26,727	26,527	26,546	27,894r	29,055	30,987
21,802	22,043	22,364	22,697	22,993r	23,258	23,476	23,671	23,936	24,189
8,897	9,276	9,639	9,974	10,206	10,498	10,882	11,207	11,522	11,830
8,344	8,761	9,125	9,284	9,479	9,648	9,972	10,369	10,655	10,933
553	515	514	690	727	850	911	838	867	898
6.2	5.5	5.3	6.9	7.1	8.1	8.4	7.5	7.5	7.6
129.9	135.9	142.8	141.1	144.1	144.3	146.5	150.7	152.4	154.9
57,570	66,501	79,846	93,299	107,922	118,998r	129,846r	145,212r	163,765	186,628
107.6	119.0	122.8	115.5	122.2	125.3	129.8	136.6	133.9	135.3
107.7	119.1	123.4	116.2	123.1	125.5	131.9	138.1	133.7	135.9
104.4	117.8	114.0	100.9	103.1	106.1	97.8	107.1	109.6	103.3
105.2	114.1	119.3	120.4	126.4	130.1	134.4	139.3	139.8	143.3
104.8	112.7	125.0	138.5	148.9	160.8	175.2	191.2	210.6	236.9

TABLE 1. MINERAL PRODUCTION OF CANADA, 1980 AND 1981, AND AVERAGE 1977-81

	Unit of Measure	1980		1981P		Average 1977-81	
		(Quantity)	($'000)	(Quantity)	($'000)	(Quantity)	($'000)
Metals							
Antimony	t	..	7,059	..	3,138	..	7,171
Bismuth	t	149	1,015	123	854	144	1,250
Cadmium	t	1 033	7,568	1 274	6,384	1 170	7,580
Calcium	t	531	3,422	566	4,234	524	2,860
Cobalt	t	2 118	134,748	1 816	101,953	1 658	79,513
Columbium (Cb_2O_5)	t	2 463	15,302	2 740	18,739	2 540	15,285
Copper	000 t	716	1,859,637	718	1,590,841	698	1,441,724
Gold	kg	50 620	1,165,417	49 500	881,116	51 830	658,411
Indium	kg	..	..	..	..	995	..
Iron ore	000 t	49 068	1,700,915	49 844	1,917,614	51 016	1,604,619
Iron remelt	000 t	..	118,990	..	131,861	..	95,438
Lead	000 t	252	273,766	273	267,937	287	281,369
Magnesium	t	9 252	27,822	8 775	30,197	8 597	24,011
Molybdenum	t	11 889	299,323	14 134	317,207	13 542	255,641
Nickel	000 t	185	1,497,418	155	1,414,743	166	1,117,759
Platinum group	kg	12 776	159,088	18 914	223,685	12 618	113,278
Selenium	t	279	8,779	290	6,903	214	6,794
Silver	kg	1 070	828,805	1 203	487,254	1 200	450,724
Tantalum (Ta_2O_5)	t	115	21,810	110	24,663	77	12,199
Tellurium	t	15	754	20	718	29	1,332
Tin	t	243	5,090	248	4,875	303	4,835
Tungsten (WO_3)	t	4 007	..	1 736	..	2 833	..
Uranium (U)	t	6 739	702,038	7 746	769,583	7 210	610,907
Zinc	000 t	884	858,190	995	1,193,477	1 023	953,571
Total metals			9,696,956		9,397,976		7,746,270
Nonmetals							
Asbestos	000 t	1 323	618,493	1 133	589,163	1 378	582,210
Barite	000 t	..	4,380	..	4,386	..	3,242
Fluorspar	000 t	-	-	-	-	-	1,737
Gemstone	t	..	1,632	..	1,560	..	1,401
Gypsum	000 t	7 336	39,539	7 800	46,410	7 708	39,415
Magnesitic dolomite and brucite	000 t	..	10,404	..	10,590	..	8,453
Nepheline syenite	000 t	600	15,936	606	17,834	597	15,023
Peat	000 t	466	44,555	485	48,334	450	39,492
Potash (K_2O)	000 t	7 201	1,020,705	6 815	1,050,513	6 640	742,941
Pyrite, pyrrhotite	000 t	32	345	11	124	21	203
Quartz	000 t	2 252	29,184	2 321	34,661	2 285	26,296

Salt	000 t	7 423	122,775	7 283	135,103	6 816	111,226
Soapstone, talc & pyrophyllite	000 t	92	3,877	89	5,158	81	3,382
Sodium sulphate	000 t	481	30,468	553	40,254	450	27,137
Sulphur in smelter gas	000 t	895	28,913	904	32,031	776	20,254
Sulphur, elemental	000 t	7 656	444,095	8 320	695,900	6 650	296,327
Titanium dioxide	000 t	..	117,060	..	120,747	..	95,871
Total nonmetals	000 t		2,532,361		2,832,668		2,014,610
Fuels							
Coal	000 t	36 688	932,000	39 250	1,045,500	33 627	845,289
Natural gas	000 m^3	87 108 000	6,148,826	82 186 000	6,156,901	88 769 592	4,901,421
Natural gas by-products	000 m^3	19 147	1,825,148	18 988	2,398,151	18 163	1,541,142
Petroleum, crude	000 m^3	83 477	9,037,890	74 763	9,411,247	79 615	7,316,698
Total fuels			17,943,864		19,011,779		14,604,549
Structural materials							
Clay products	000 $	..	108,453	..	120,174	..	112,630
Cement	000 t	10 274	581,372	10 368	680,587	10 521	581,703
Lime	000 t	2 554	129,232	2 463	148,473	2 162	100,233
Sand and gravel	000 t	276 452	508,364	287 468	547,096	276 828	458,864
Stone	000 t	103 366	341,156	94 577	345,518	109 994	329,339
Total structural materials			1,668,577		1,841,848		1,582,768
Total, all minerals			31,841,758		33,084,291		25,948,197

Notes: [1] Production statistics for the following are not available for publication: diatomite, helium, nitrogen and yttrium. [2] Nil production for the following between 1977 and 1981: feldspar, grindstone, iron oxide, lithia and thorium. [3] Dollar values only available for publication for the following: antimony, iron remelt, barite, gemstones, magnesitic dolomite and brucite, titanium dioxide and clay products.
P Preliminary; .. Not available or not applicable; - Nil.

TABLE 2. CANADA, VALUE OF MINERAL PRODUCTION, PER CAPITA VALUE OF MINERAL PRODUCTION, AND POPULATION, 1952-81

	Metallics	Industrial Minerals	Fuels	Total	Per Capita Value of Mineral Production	Population of Canada
		($ million)			($)	(000)
1952	728	293	264	1,285	88.90	14,459
1953	710	312	314	1,336	90.02	14,845
1954	802	333	353	1,488	97.36	15,287
1955	1,008	373	414	1,795	114.37	15,698
1956	1,146	420	519	2,085	129.65	16,081
1957	1,159	466	565	2,190	131.87	16,610
1958	1,130	460	511	2,101	122.99	17,080
1959	1,371	503	535	2,409	137.79	17,483
1960	1,407	520	566	2,493	139.48	17,870
1961	1,387	542	674	2,603	142.72	18,238
1962	1,496	574	811	2,881	155.05	18,583
1963	1,510	632	885	3,027	159.91	18,931
1964	1,702	690	973	3,365	174.45	19,291
1965	1,908	761	1,046	3,715	189.11	19,644
1966	1,985	844	1,152	3,981	198.88	20,015
1967	2,285	861	1,235	4,381	214.99	20,378
1968	2,493	886	1,343	4,722	228.10	20,701
1969	2,378	891	1,465	4,734	225.42	21,001
1970	3,073	931	1,718	5,722	268.68	21,297
1971	2,940	1,008	2,015	5,963	276.46	21,568
1972	2,956	1,085	2,367	6,408	293.92	21,802
1973	3,850	1,293	3,227	8,370	379.69	22,043
1974	4,821	1,731	5,202	11,754	525.55	22,364
1975	4,796	1,898	6,653	13,347	588.05	22,697
1976	5,315	2,269	8,109	15,693	682.51	22,993
1977	5,988	2,612	9,873	18,473	794.26	23,258
1978	5,698	2,986	11,577	20,261	863.05	23,476
1979	7,951	3,514	14,617	26,081	1,101.81	23,671
1980	9,697	4,201	17,944	31,842	1,330.30	23,936
1981P	9,398	4,675	19,012	33,084	1,367.73	24,189

P Preliminary.

TABLE 3. CANADA, VALUE OF MINERAL PRODUCTION BY PROVINCES, TERRITORIES AND MINERAL CLASSES, 1981P

	Metals		Industrial Minerals		Fuels		Total	
	($000)	(% of total)	($000)	(% of total)	($000)	(% of total)	($000)	(% of total)
Alberta	2,145	0.0	919,090	19.7	16,650,147	87.6	17,571,382	53.1
Ontario	3,454,323	36.8	817,545	17.5	45,743	0.2	4,317,611	13.1
British Columbia	1,458,591	15.5	379,206	8.1	1,133,926	6.0	2,971,723	9.0
Saskatchewan	329,369	3.5	1,165,341	24.9	915,202	4.8	2,409,912	7.3
Quebec	1,346,295	14.3	1,037,146	22.2	-	-	2,383,441	7.2
Newfoundland	1,130,160	12.0	64,334	1.4	-	-	1,194,494	3.6
Manitoba	503,180	5.4	104,182	2.2	63,962	0.3	671,324	2.0
New Brunswick	452,832	4.8	58,657	1.3	23,080	0.1	534,569	1.6
Northwest Territories	413,432	4.4	-	-	53,739	0.3	467,171	1.4
Yukon	298,173	3.2	-	-	-	-	298,173	0.9
Nova Scotia	9,476	0.1	126,440	2.7	126,000	0.7	261,916	0.8
Price Edward Island	-	-	2,575	0.1	-	-	2,575	-
Total, Canada	9,397,976	100.0	4,674,516	100.0	19,011,799	100.0	33,084,291	100.0

P Preliminary; - Nil.

TABLE 4. PRODUCTION OF LEADING MINERALS,

	Unit of measure	Nfld.	P.E.I.	Nova Scotia	New Brunswick	Quebec	Ontario
Oil, crude	000 m^3	-	-	-	1	-	92
	$000	-	-	-	38	-	10,975
Natural gas	000 m^3	-	-	-	2	-	407
	$000	-	-	-	42	-	34,768
Natural gas byproducts	000 m^3	-	-	-	-	-	-
	$000	-	-	-	-	-	-
Iron ore	000 t	26 008	-	-	-	17 970	5 267
	$000	1,058,275	-	-	-	588,009	247,213
Copper	000 t	6	-	-	13	89	228
	$000	12,350	-	-	28,359	200,477	504,738
Nickel	000 t	-	-	-	-	-	127
	$000	-	-	-	-	-	1,159,747
Zinc	000 t	41	-	3	232	54	247
	$000	48,604	-	3,533	278,462	64,614	295,936
Potash (K_2O)	000 t	-	-	-	-	-	-
	$000	-	-	-	-	-	-
Coal	000 t	-	-	2 500	520	-	-
	$000	-	-	126,000	23,000	-	-
Gold	kg	x	-	-	x	17	17
	$000	4,263	-	-	1,174	298,294	292,638
Uranium (U)	t	-	-	-	-	-	5
	$000	-	-	-	-	-	467,925
Sulphur, elemental	000 t	-	-	-	-	-	22
	$000	-	-	-	-	-	1,200
Cement	000 t	x	-	x	x	2 527	3 620
	$000	7,388	-	26,323	12,516	128,973	200,115
Asbestos	000 t	57	-	-	-	984	-
	$000	39,330	-	-	-	471,443	-
Sand and gravel	000 t	3 607	950	10 000	7 000	68 037	106 574
	$000	6,889	2,575	26,000	14,000	83,047	202,491
Silver	kg	8	-	..	192	49	324
	$000	3,107	-	..	77,702	20,936	130,784
Stone	000 t	1 100	-	2 000	3 400	44 127	32 500
	$000	3,300	-	8,500	12,750	154,143	113,000
Molybdenum	t	-	-	-	-	1	-
	$000	-	-	-	-	17,513	-
Lead	t	3	-	6	65	x	2
	$000	3,120	-	5,943	63,732	8	2,220
Platinum group	kg	-	-	-	-	-	19
	$000	-	-	-	-	-	223,214
Lime	000 t	-	-	-	x	348	1 711
	$000	-	-	-	3,497	20,589	103,500
Salt	000 t	-	-	1 053	-	-	4 963
	$000	-	-	30,057	-	-	77,121
Titanium dioxide	000 t	-	-	-	-	..	-
	$000	-	-	-	-	120,647	-
Clay products	$000	957	-	3,500	1,600	13,991	69,366
Cobalt	t	-	-	-	-	-	2
	$000	-	-	-	-	-	88,096
Total leading minerals	$000	1,187,583	2,575	229,856	516,872	2,182,684	4 225,047
Total all minerals	$000	1,194,494	2,575	261,916	534,569	2,383,441	4 317,611
Leading minerals as % of all minerals		99.4	100.0	87.8	96.7	91.6	97.9

P Preliminary; - Nil; .. Not available; x less than 1 unit amount.

BY PROVINCES AND TERRITORIES, 1981P

Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	N.W.T.	Total Canada
538	7 406	64 476	2 062	-	188	74 763
63,962	826,806	8,255,022	237,908	-	16,536	9,411,247
-	1 247	72 451	7 709	-	370	82 186
-	20,351	5,728,039	336,498	-	37,203	6,156,901
-	120	18 605	263	-	-	18 988
-	13,545	2,357,686	26,920	-	-	2,398,151
-	-	-	599	-	-	49 844
-	-	-	24,117	-	-	1,917,614
58	6	-	309	9	x	718
127,795	12,216	-	684,064	20,192	650	1,590,841
28	-	-	-	-	-	155
254,996	-	-	-	-	-	1,414,743
39	6	-	62	86	224	995
47,240	7,596	-	74,662	103,783	269,047	1,193,477
-	6 815	-	-	-	-	6 815
-	1,050,513	-	-	-	-	1,050,513
-	6 730	18 100	11 400	-	-	39 250
-	54,500	309,400	532,600	-	-	1,045,500
1	x	x	8	3	4	50
22,114	5,409	2,143	136,223	53,964	64,894	881,116
-	3	-	-	-	-	8
-	301,658	-	-	-	-	769,583
-	-	8 000	298	-	-	8 320
-	-	675,000	19,700	-	-	695,900
650	398	1 140	970	-	-	10 368
50,904	37,413	135,409	81,546	-	-	680,587
-	-	-	92	-	-	1 133
-	-	-	78,390	-	-	589,163
10 300	10 700	25 000	45 300	-	-	287 468
24,514	20,330	58,750	108,500	-	-	547,096
28	5	x	388	172	37	1 203
11,277	2,250	2	156,712	69,528	14,956	487,254
2 200	-	250	9 000	-	-	94 577
10,450	-	1,375	42,000	-	-	345,518
-	-	-	13	-	-	14
-	-	-	299,694	-	-	317,207
x	-	-	79	52	65	273
360	-	-	77,961	50,706	63,885	267,937
-	-	-	..	-	-	19
-	-	-	471	-	-	223,685
x	-	170	112	-	-	2 463
4,296	-	9,838	6,753	-	-	148,473
-	329	938	-	-	-	7 283
-	14,502	13,423	-	-	-	135,103
-	-	-	-	-	-	..
-	-	-	-	-	-	120,647
1,780	3,900	14,180	10,900	-	-	120,174
x	-	-	-	-	-	2
13,857	-	-	-	-	-	101,953
633,545	2,370,989	17,560,267	2,935,619	298,173	467,171	32,610,383
671,324	2,409,912	17,571,382	2,971,723	298,173	467,171	33,084,291
94.4	98.4	99.9	98.8	100.0	100.0	98.6

TABLE 5. CANADA, PERCENTAGE CONTRIBUTION OF LEADING MINERALS TO TOTAL VALUE OF MINERAL PRODUCTION, 1975-81

	1975	1976	1977	1978	1979	1980	1981P
Oil, crude	28.2	25.8	26.4	28.7	28.6	28.4	28.4
Natural gas	11.4	16.9	18.5	19.4	18.6	19.3	18.6
Natural gas byproducts	5.9	5.1	5.3	5.3	5.5	5.7	7.2
Iron ore	6.9	7.8	7.5	6.0	6.9	5.3	5.8
Copper	7.7	7.0	6.3	5.4	5.8	5.8	4.8
Nickel	8.3	7.3	6.6	3.1	3.2	4.7	4.3
Zinc	6.5	5.2	4.5	4.0	4.1	2.7	3.6
Coal	4.4	3.9	3.3	3.8	3.3	2.9	3.2
Potash (K_2O)	2.7	2.3	2.2	2.5	2.8	3.2	3.2
Gold	2.0	1.3	1.5	1.9	2.3	3.7	2.7
Uranium (U)	...	1.5	1.9	3.1	2.4	2.2	2.3
Cement	2.5	2.4	2.3	2.8	2.5	1.8	2.0
Asbestos	2.0	2.9	3.1	2.6	2.3	1.9	1.8
Sand and gravel	2.3	2.1	2.0	2.1	1.8	1.6	1.7
Silver	1.3	1.1	1.1	1.2	1.8	2.6	1.5
Sulphur, elemental	0.7	0.5	0.4	0.5	0.6	1.4	1.2
Molybdenum	0.5	0.6	0.8	0.9	1.3	0.9	1.0
Stone	1.5	1.5	1.6	1.6	1.3	1.1	1.0
Lead	1.2	0.8	1.1	1.3	1.6	0.9	0.8
Platinum group	0.4	0.3	0.3	0.3	0.2	0.5	0.7
Clay products	0.6	0.6	0.6	0.5	0.5	0.3	0.4
Lime	0.3	0.4	0.4	0.4	0.3	0.4	0.4
Titanium dioxide	0.4	0.5	0.4	0.4	0.3	0.4	0.4
Salt	0.5	0.5	0.5	0.5	0.4	0.4	0.4
Cobalt	0.1	0.1	0.1	0.2	0.4	0.4	0.3
Other minerals	1.7	1.6	1.3	1.5	1.2	1.5	2.3
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

P Preliminary; ... Too small to be expressed.

TABLE 6. CANADA, VALUE OF MINERAL PRODUCTION BY PROVINCES AND TERRITORIES, 1975-81

	1975	1976	1977	1978	1979	1980	1981P
				($ million)			
Alberta	5,750	6,934	8,576	10,087	12,899	16,379	17,571
Ontario	2,354	2,712	2,980	2,698	3,265	4,640	4,318
British Columbia	1,296	1,606	1,687	1,883	2,677	2,795	2,972
Saskatchewan	862	974	1,208	1,582	1,874	2,315	2,410
Quebec	1,232	1,493	1,675	1,796	2,165	2,467	2,383
Newfoundland	551	745	867	675	1,125	1,036	1,194
Manitoba	530	511	564	459	653	803	671
New Brunswick	232	239	289	339	480	373	535
Northwest Territories	206	225	256	310	435	425	467
Yukon	230	125	210	219	299	361	298
Nova Scotia	102	127	159	211	210	247	262
Prince Edward Island	2	2	2	2	2	2	3
Total	13,347	15,693	18,473	20,261	26,084	31,842	33,084

P Preliminary.

TABLE 7. CANADA, PERCENTAGE CONTRIBUTION OF PROVINCES AND TERRITORIES TO TOTAL VALUE OF MINERAL PRODUCTION, 1975-81

	1975	1976	1977	1978	1979	1980	1981P
Alberta	43.1	44.2	46.4	49.8	49.5	51.4	53.1
Ontario	17.6	17.3	16.1	13.3	12.5	14.6	13.1
British Columbia	9.7	10.2	9.1	9.3	10.3	8.8	9.0
Saskatchewan	6.5	6.2	6.5	7.8	7.2	7.2	7.3
Quebec	9.2	9.5	9.1	8.9	8.3	7.7	7.2
Newfoundland	4.1	4.7	4.7	3.3	4.3	3.3	3.6
Manitoba	4.0	3.3	3.1	2.3	2.5	2.5	2.0
New Brunswick	1.7	1.5	1.6	1.7	1.8	1.2	1.6
Northwest Territories	1.6	1.5	1.4	1.5	1.7	1.3	1.4
Yukon	1.7	0.8	1.1	1.1	1.1	1.1	0.9
Nova Scotia	0.8	0.8	0.9	1.0	0.8	0.8	0.8
Prince Edward Island	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

P Preliminary.

TABLE 8. CANADA'S WORLD ROLE AS A PRODUCER OF

		World
Potash (K_2O equivalent)	000 t	27 642
	% of world total	
Nickel (mine production)	t	757 200
	% of world total	
Zinc (mine production)	000 t	5 745
	% of world total	
Asbestos	000 t	4 818
	% of world total	
Sulphur, elemental	000 t	36 350
	% of world total	
Titanium concentrates (Ilmenite)	000 t	4 865
	% of world total	
Uranium (U concentrates)	t	43 976
	% of world total	
Gypsum	000 t	71 150
	% of world total	
Silver	kg	10 497 870
	% of world total	
Molybdenum (Mo content)	t	107 710
	% of world total	
Platinum group metals (mine production)	kg	212 632
	% of world total	
Gold (mine production)	kg	1 256 857
	% of world total	
Copper (mine production)	t	7 846 332
	% of world total	
Lead (mine production)	t	3 620 600
	% of world total	
Aluminum (primary metal)	t	16 057 300
	% of world total	
Cadmium (smelter production)	t	18 400
	% of world total	
Iron ore	000 t	876 340
	% of world total	

P Preliminary; e Estimated.

CERTAIN IMPORTANT MINERALS, 1980P

Rank of Six Leading Countries					
1	2	3	4	5	6
Canada 7 303 26.4	U.S.S.R. 6 750[e] 24.4	East Germany 3 500[e] 12.7	West Germany 2 474 9.7	U.S.A. 2 239 8.1	France 1 939 7.0
Canada 194 900 25.7	U.S.S.R. 143 000[e] 18.9	New Caledonia 86 600 11.4	Australia 74 300 9.8	Indonesia 40 600 5.4	Philippine Republic 38 300 5.1
Canada 1 059 18.4	U.S.S.R. 1 000[e] 17.4	Peru 488 8.5	Australia 463 8.1	U.S.A. 368 6.4	Mexico 238 4.1
U.S.S.R. 2 150[e] 44.6	Canada 1 323 27.5	South Africa 270 5.6	Zimbabwe 251 5.2	China 250[e] 5.2	Italy 145 3.0
U.S.A. 10 368 28.5	Canada 7 656 21.0	Poland 4 985 13.7	U.S.S.R. 4 000 11.0	Mexico 2 140 5.9	France 2 060 5.7
Australia 1 336 27.5	Canada 875 18.0	Norway 828 17.0	U.S.A. 498 10.2	U.S.S.R. 400[e] 8.2	South Africa 343 7.1
U.S.A. 16 809 38.2	Canada 6 739 15.3	South Africa 6 146 14.0	Niger 4 100 9.3	Namibia 4 042 9.2	France 2 634 6.0
U.S.A. 11 227 15.8	Canada 7 336 10.3	France 5 987 8.4	U.S.S.R. 5 897 8.3	Spain 5 498 7.7	Iran 3 538 5.0
U.S.S.R. 1 550 000[e] 14.8	Mexico 1 472 600 14.3	Canada 1 232 000 11.7	Peru 1 232 000 11.7	U.S.A. 974 372 9.3	Australia 769 699 7.3
U.S.A. 68 350 63.5	Chile 13 341 12.4	Canada 11 889 11.0	U.S.S.R. 10 400[3] 9.7	China 2 000[e] 1.9	Peru 998 0.9
U.S.S.R. 101 086[e] 47.5	South Africa 96 421[e] 45.3	Canada 12 776 6.0	Columbia 404 0.2	Australia 306 0.1	U.S.A. 93 -
South Africa 673 997 53.6	U.S.S.R. 258 160[e] 20.5	Canada 50 620 4.0	China 46 655[e] 3.7	Brazil 40 435 3.2	U.S.A. 29 592 2.4
U.S.A. 1 181 155 15.1	U.S.S.R. 1 150 000[e] 14.7	Chile 1 067 666 13.6	Canada 716 313 9.1	Zambia 595 839 7.6	Zaire 459 671 5.9
U.S.S.R. 580 000[e] 16.0	U.S.A. 561 800 15.5	Australia 397 500 11.0	Canada 296 641 8.1	Peru 189 100 5.2	Mexico 145 500 4.0
U.S.A. 4 653 900 29.0	U.S.S.R. 1 787 000[e] 11.1	Japan 1 091 500 6.8	Canada 1 068 200 6.7	West Germany 731 190 4.6	Norway 651 360 4.1
U.S.S.R. 2 850[e] 15.5	Japan 2 173 11.8	U.S.A. 1 578 8.6	Belgium 1 527 8.3	Canada 1 303 7.1	Germany 1 197 6.5
U.S.S.R. 244 760 27.9	Brazil 97 240 11.1	Australia 95 530 10.9	China 75 000[e] 8.6	U.S.A. 70 730 8.1	Canada 49 068 5.6

TABLE 9. CANADA, GROSS DOMESTIC PROUDCT BY INDUSTRY IN CONSTANT 1971 PRICES, 1975-1981

	1975	1976	1977	1978	1979	1980	1981P
				($ million)			
Goods producing industries							
Agriculture	2,776.1	2,947.5	3,069.7	2,996.5	2,698.5	2,908.6	3,260.5
Forestry	655.1	705.6	741.9	794.9	795.9	816.2	788.7
Fishing and trapping	126.4	144.4	162.3	179.5	183.7	168.5	155.7
Mining[1]	3,175.1	3,243.6	3,337.3	3,015.1	3,282.9	3,401.1	3,222.8
Manufacturing	22,122.5	23,413.9	23,901.6	25,139.9	36,631.8	25,846.3	26,378.5
Construction	6,779.6	6,992.0	6,856.2	6,706.0	6,887.8	6,859.2	7,344.2
Electrical power, gas and water utilities	2,862.9	3,116.0	3,311.3	3,521.6	3,685.3	3,783.7	3,977.9
Total	38,497.7	40,581.0	41,380.3	42,353.6	44,165.9	43,783.6	45,128.3
Service producing industries							
Transportation, storage and communication	9,894.5	10,419.5	10,972.8	11,462.3	12,393.9	12,756.3	13,167.2
Trade	12,992.6	13,531.4	13,710.4	14,206.5	14,686.2	14,721.2	14,763.1
Finance, insurance and real estate	12,070.5	12,683.3	13,444.8	14,119.9	14,555.0	15,041.1	15,623.9
Community, business and personnel services	19,481.8	20,469.5	21,096.3	21,888.1	22,459.9	22,771.2	23,718.0
Public administration and defense	7,345.5	7,564.7	7,736.2	7,927.5	7,884.5	7,985.6	8,145.1
Total	61,784.9	64,668.4	66,960.5	69,604.3	71,979.5	73,275.4	75,417.3
Grand total	100,282.6	105,249.4	108,340.8	111,957.9	116,145.4	117,059.0	120,545.6

[1] Cement, lime, clay and clay products industries are included under "Manufacturing".
P Preliminary.

TABLE 10. CANADA, CENSUS VALUE ADDED, TOTAL ACTIVITY, MINING AND MINERAL MANUFACTURING INDUSTRIES, 1974-80

	1974	1975	1976	1977	1978	1979	1980P
	(millions of dollars)						
Mining							
Metallic minerals							
Gold-quartz	163.6	149.9	113.7	152.0	207.6	322.8	588.8
Copper-gold-silver	1,028.6	595.4	600.7	571.3	715.9	1,434.5	1,558.6
Silver-lead-zinc	328.3	320.8	233.7	279.8	372.7	671.9	513.6
Nickel-copper	1,049.7	729.7	888.1	673.0	572.6	1,035.1	1,433.6
Iron	403.9	556.7	732.1	807.3	717.0	1,022.2	1,005.0
Uranium	93.3	157.8	195.8	300.1	501.7	525.4	599.3
Miscellaneous metal mines	50.0	53.7	74.2	118.0	138.6	179.7	243.3
Total	3,171.4	2,563.9	2,838.4	2,901.4	3,226.1	5,191.6	5,902.2
Industrial minerals							
Asbestos	239.8	230.6	373.2	474.8	401.6	456.8	473.4
Gypsum	16.5	14.9	15.8	21.0	25.9	27.5	26.9
Peat	19.8	20.6	23.7	27.4	33.7	38.8	42.7
Potash	232.7	298.5	262.1	301.4	360.2	613.5	900.4
Salt	49.8	45.9	70.7	70.9	77.9	86.4	93.7
Sand and gravel	83.5	102.3	99.0	91.3	85.8	91.5	92.0
Stone	92.9	111.0	111.0	106.1	110.2	121.7	123.4
Miscellaneous nonmetals	37.5	40.4	42.4	45.6	44.7	53.7	59.0
Total	772.4	864.1	997.8	1,138.4	1,139.9	1,489.8	1,811.5
Fuels							
Coal	261.2	483.5	474.3	508.5	566.8	658.6	621.6
Petroleum and natural gas	4,725.0	5,838.5	7,050.0	8,698.3	10,083.4	12,559.7	15,012.3
Total	4,986.2	6,322.0	7,524.3	9,206.9	10,650.2	13,218.2	15,633.9
Total mining industry	8,930.0	9,750.0	11,360.5	13,246.7	15,016.2	19,899.6	23,347.6
Mineral manufacturing							
Primary metal industries							
Iron and steel mills	1,398.7	1,364.0	1,498.8	1,677.6	1,924.9	2,424.3	2,537.9
Steel pipe & tube mills	152.3	170.3	148.8	160.3	225.1	280.4	297.6
Iron foundries	222.4	238.1	241.9	257.7	273.8	298.2	266.9
Smelting and refining	794.2	886.4	812.7	1,176.1	1,387.2	1,401.0	1,849.2
Aluminum rolling, casting and extruding	146.7	132.6	149.4	193.7	154.3	249.0	273.5
Copper and alloy rolling, casting and extruding	91.3	68.3	71.4	78.5	93.1	131.5	103.7
Metal rolling, casting and extruding, nes	106.1	88.4	113.3	110.2	136.2	198.9	203.6
Total	911.8	948.2	3,036.3	3,654.0	4,194.7	4,983.3	5,532.4

(continued on following page)

TABLE 10. (cont'd)

	1974	1975	1976	1977	1978	1979	1980P
	(millions of dollars)						
Mineral manufacturing (cont'd)							
Nonmetallic mineral products industries							
Cement manufacturers	190.4	210.3	249.1	275.0	319.9	388.8	357.3
Lime manufacturers	25.0	24.9	30.0	36.6	44.6	49.3	59.5
Concrete products manufacturers	248.5	282.1	282.1	273.5	309.3	328.7	323.9
Ready-mix concrete manufacturers	236.3	282.6	282.6	292.8	317.3	341.6	352.4
Clay products (domestic clay)	51.5	59.7	65.9	69.6	73.6	87.5	84.6
Clay products (imported clay)	41.7	41.7	39.1	39.8	43.1	44.9	51.6
Refractories manufacturers	37.2	45.8	44.4	32.5	45.3	66.6	73.6
Stone products manufacturers	12.3	14.0	16.3	19.6	22.4	28.2	33.2
Glass manufacturers	190.0	185.6	205.1	199.2	266.8	294.9	308.1
Glass products manufacturers	72.4	74.3	87.4	96.6	122.9	141.0	143.6
Abrasive manufacturers	46.0	43.9	55.1	64.1	70.6	79.4	92.1
Other nonmetallic mineral products industries	195.2	237.4	270.2	253.6	341.0	375.2	374.8
Total	1,346.6	1,502.4	1,627.3	1,652.9	1,976.8	2,226.2	2,254.8
Petroleum and coal products industries							
Petroleum refining	925.2	789.7	945.8	1,206.7	1,180.4	1,390.9	1,750.1
Manufacturers of lubricating oil and greases	26.3	32.6	32.6	36.8	36.9	38.3	26.7
Other petroleum and coal products industries	26.7	43.6	45.7	44.4	33.1	30.5	36.0
Total	978.3	866.0	1,024.2	1,287.9	1,250.4	1,459.8	1,812.8
Total mineral manufacturing	5,236.6	5,316.5	5,687.8	6,594.8	7,421.9	8,669.2	9,600.0
Total mining and mineral manufacturing	14,166.6	15,066.6	17,048.3	19,841.5	22,438.1	28,568.9	32,947.6

P Preliminary; nes Not elsewhere specified.

TABLE 11. CANADA, INDEXES OF GROSS DOMESTIC PRODUCT OF TOTAL INDUSTRIAL PRODUCTION, MINING AND MINERAL MANUFACTURING, 1967-1981 (1971=100)

	1967	1968	1969	1970	1971	1972r	1973r	1974r	1975r	1976r	1977r	1978r	1979r	1980	1981p
Total industrial production	82.3	87.6	93.6	94.9	100.0	107.6	119.0	122.8	115.5	122.2	125.3	129.8	136.6	133.9	135.4
Total mining	79.9	86.2	86.9	98.7	100.0	104.4	117.8	114.0	100.9	103.1	106.1	97.8	107.1	109.6	103.3
Metals															
All metals	89.9	95.5	88.4	105.4	100.0	94.3	105.7	101.8	91.2	96.7	99.5	76.5	81.3	86.3	82.0
Placer gold and gold quartz mines	134.1	121.7	118.2	105.3	100.0	90.1	80.0	68.4	67.4	69.1	68.2	65.5	59.8	53.9	54.9
Iron mines	88.8	104.8	91.9	116.1	100.0	78.7	97.4	80.4	71.4	104.6	94.7	55.6	90.2	78.4	71.8
Other metal mines	87.8	92.0	85.3	103.0	100.0	98.7	109.8	111.1	99.2	97.1	102.0	79.2	77.9	88.5	83.7
Fuels															
All fuels	67.1	73.4	80.8	92.6	100.0	114.7	130.1	124.7	112.4	107.5	108.6	111.5	124.5	120.3	112.8
Coal	70.3	68.7	68.4	87.5	100.0	105.4	115.5	116.8	137.5	128.5	125.2	167.3	177.5	193.4	207.5
Crude oil and natural gas	66.8	73.7	81.7	93.0	100.0	115.4	131.2	125.3	110.5	105.9	107.3	107.3	120.5	114.8	105.7
Nonmetals															
All nonmetals	76.8	83.7	92.8	95.0	100.0	99.7	107.8	119.7	88.9	103.6	109.4	105.0	113.2	116.0	110.7
Asbestos	78.9	82.6	89.8	95.2	100.0	101.0	102.1	102.0	63.7	85.5	85.5	67.4	71.6	66.7	56.6
Mineral manufacturing															
Primary metals	84.5	92.9	94.9	100.9	100.0	101.3	112.2	118.7	107.0	105.6	113.2	119.1	122.3	126.7	126.7
Nonmetallic mineral products	80.7	87.1	90.5	86.6	100.0	109.1	119.5	125.2	117.7	120.5	119.4	127.6	136.6	127.8	130.4
Petroleum and coal products	79.9	88.7	92.1	94.4	100.0	115.3	136.1	136.8	130.9	120.0	112.1	96.3	96.8	95.6	89.2

p Preliminary; r Revised.

TABLE 12. CANADA, INDEXES OF GROSS DOMESTIC PRODUCT BY INDUSTRIES, 1967-81 (1971=100)

	1967	1968	1969	1970	1971	1972[r]	1973[r]	1974[r]	1975[r]	1976[r]	1977[r]	1978[r]	1978[r]	1980	1981[p]
Real domestic product, all industries	82.3	86.9	92.2	94.4	100.0	105.9	114.1	119.3	120.4	126.4	130.1	134.4	139.3	139.8	143.4
Agriculture	78.9	85.2	90.6	89.0	100.0	88.7	96.9	89.5	103.0	109.3	113.9	111.1	100.2	105.5	114.6
Forestry	90.1	94.4	102.4	103.3	100.0	105.7	113.7	112.1	97.8	105.4	110.8	116.3	116.7	113.0	108.1
Fishing and trapping	102.0	115.6	102.6	105.4	100.0	95.7	101.6	90.2	85.8	98.0	110.1	121.6	124.3	114.7	123.3
Mining (incl. milling), quarries and oil wells	79.9	86.2	86.9	98.7	100.0	104.4	117.8	114.0	100.9	103.1	106.1	97.8	107.1	109.6	103.3
Electric power, gas and water utilities	72.6	78.2	85.4	93.3	100.0	111.1	120.3	130.1	130.5	142.0	150.9	157.5	166.3	170.4	175.9
Manufacturing	83.9	89.1	95.8	94.5	100.0	107.7	119.1	123.4	116.2	123.1	125.5	131.9	138.1	133.7	136.1
Construction	87.1	90.1	92.5	90.9	100.0	103.0	106.1	110.3	116.0	119.6	117.3	114.6	116.3	114.0	121.5
Transportation, storage and communications	77.9	82.8	89.0	94.2	100.0	108.5	117.9	125.0	126.5	134.2	141.6	147.8	157.9	161.7	166.7
Trade	83.7	87.1	91.7	93.2	100.0	109.9	119.8	129.5	132.5	138.0	139.8	144.9	149.7	149.6	150.9
Community, business and personal service	81.4	85.7	91.6	95.5	100.0	104.8	109.5	115.8	121.1	127.3	131.2	136.3	140.8	142.5	147.7
Finance, insurance and real estate	81.7	86.7	92.4	94.6	100.0	105.3	114.0	120.9	125.9	132.3	140.2	147.6	153.9	158.7	163.2
Public administration and defence	86.8	89.1	91.6	95.2	100.0	104.2	109.7	113.9	119.4	123.0	125.7	128.9	128.3	129.7	132.0

[p] Preliminary; [r] Revised.

TABLE 13. CANADA, VALUE OF EXPORTS OF CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS, BY MAIN GROUPS, 1975-81

	1975	1976	1977	1978	1979	1980	1981P
				($ million)			
Ferrous							
Crude material	721.5	984.4	1,114.9	854.5	1,469.5	1,342.9	1,540.0
Fabricated material	913.1	1,007.4	1,242.9	1,696.0	1,947.6	2,358.0	2,664.9
Total	1,634.7	1,991.8	2,357.9	2,550.6	3,417.1	3,701.1	4,205.0
Nonferrous							
Crude material	1,519.6	1,528.0	1,614.9	1,549.2	2,425.1	2,866.6	2,544.0
Fabricated material	1,843.5	2,231.3	2,578.4	3,360.9	3,807.1	6,273.8	5,615.6
Total	3,363.1	3,759.3	4,193.4	4,910.1	6,232.1	9,140.4	8,159.6
Nonmetals							
Crude material	794.9	1,103.4	1,276.1	1,369.7	1,715.3	2,305.0	2,618.7
Fabricated material	162.7	194.7	253.6	377.2	455.9	412.5	439.7
Total	957.6	1,298.1	1,529.6	1,746.8	2,171.2	2,717.5	3,058.3
Mineral fuels							
Crude material	4,637.3	4,464.0	4,428.9	4,514.9	6,128.9	7,816.8	8,022.0
Fabricated material	638.5	562.0	649.1	1,022.7	1,885.3	2,324.2	2,642.0
Total	5,275.8	5,026.0	5,078.0	5,537.6	8,014.2	10,141.0	10,664.0
Total minerals and products							
Crude material	7,673.3	8,079.8	8,434.9	8,288.2	11,738.8	14,331.4	14,724.6
Fabricated material	3,557.8	3,995.5	4,724.1	6,456.8	8,095.8	11,368.7	11,362.3
Total	11,231.1	12,075.3	13,158.9	14,745.0	19,834.7	25,700.1	26,086.9

P Preliminary.

TABLE 14. CANADA, VALUE OF IMPORTS OF CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS, BY MAIN GROUPS, 1975-81

	1975	1976	1977	1978	1979	1980	1981P
				($ million)			
Ferrous							
Crude material	179.5	129.8	106.8	223.8	322.1	354.2	373.2
Fabricated material	1,494.7	1,274.0	1,501.0	1,838.3	2,533.9	2,329.0	3,303.2
Total	1,674.2	1,403.8	1,607.0	2,062.1	2,856.0	2,683.2	3,676.4
Nonferrous							
Crude material	288.9	294.6	409.0	480.9	808.1	1,778.3	1,509.4
Fabricated material	621.8	600.4	662.1	949.1	2,122.7	2,784.6	2,433.4
Total	910.7	895.0	1,071.1	1,430.0	2,930.8	4,562.9	3,942.8
Nonmetals							
Crude material	183.0	157.9	170.6	231.0	284.5	329.3	339.3
Fabricated material	358.7	413.5	472.0	526.8	644.7	724.2	805.3
Total	541.7	571.4	642.6	757.8	929.2	1,053.5	1,144.6
Mineral fuels							
Crude material	3,886.8	3,834.1	3,876.4	4,092.8	5,364.3	7,732.3	8,696.9
Fabricated material	275.8	219.7	299.7	344.8	394.0	687.7	881.3
Total	4,162.6	4,053.8	4,176.1	4,437.6	5,758.3	8,420.0	9,578.2
Total minerals and products							
Crude material	4,538.2	4,416.4	4,562.0	5,028.6	6,779.0	10,194.1	10,918.7
Fabricated material	2,751.0	2,507.6	2,934.8	3,659.0	5,695.3	6,525.4	7,423.3
Total	7,289.2	6,924.0	7,496.8	8,687.6	12,474.3	16,719.5	18,342.0

P Preliminary.

TABLE 15. CANADA, VALUE OF EXPORTS OF CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS IN RELATION TO TOTAL EXPORT TRADE, 1971, 1976, 1981

	1971	%	1976	%	1981P	%
Crude material	2 968.1	17.1	8 079.8	21.5	14 724.6	18.1
Fabricated material	2 070.9	11.9	3 995.5	10.6	11 362.3	14.0
Total	5 039.0	29.0	12 075.3	32.1	26 086.9	32.1
Total exports, all products	17 396.6	100.0	37 650.7	100.0	81 203.3	100.0

P Preliminary.

TABLE 16. CANADA, VALUE OF IMPORTS OF CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS IN RELATION TO TOTAL EXPORT TRADE, 1971, 1976, 1981

	1971	%	1976	%	1981P	%
Crude material	1 016.0	6.5	4 416.4	11.8	10 918.7	13.8
Fabricated material	1 500.1	9.6	2 507.6	6.7	7 423.3	9.4
Total	2 516.1	16.1	6 924.0	18.5	18 342.0	23.2
Total imports, all products	15 618.1	100.0	37 494.0	100.0	79 123.4	100.0

P Preliminary.

TABLE 17. CANADA, VALUE OF EXPORTS OF CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS, BY MAIN GROUPS AND DESTINATION, 1981P

	U.S.A.	United Kingdom	E.F.T.A.[1]	E.E.C.[2]	Japan	Other countries	Total
				($ million)			
Ferrous materials and products	3,170.9	212.5	8.0	384.1	103.0	326.5	4,205.0
Nonferrous materials and products	4,647.0	819.8	429.1	798.1	832.3	633.3	8,159.6
Nonmetallic mineral materials and products	1,357.8	48.3	31.1	277.2	111.1	1,232.8	3,058.3
Mineral fuels, materials and products	9,200.8	5.2	29.6	255.4	753.7	419.3	10,664.0
Total	18,376.6	1,085.8	497.8	1,714.7	1,800.0	2,611.9	26,086.9
Percentage of total mineral exports	70.4	4.2	1.9	6.6	6.9	10.0	100.0

[1] European Free Trade Association includes Austria, Norway, Portugal, Sweden, Switzerland, Finland and Iceland. [2] European Economic Community includes Belgium-Luxembourg, France, Italy, Netherlands, West Germany, Greece, Denmark and Ireland.
P Preliminary.

TABLE 18. CANADA, VALUE OF IMPORTS OF CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS, BY MAIN GROUPS AND DESTINATION, 1981P

	U.S.A.	United Kingdom	E.F.T.A.[1]	E.E.C.[2]	Japan	Other countries	Total
				($ million)			
Ferrous materials and products	2,177.8	199.1	84.8	515.9	387.3	311.5	3,676.4
Nonferrous materials and products	2,941.4	32.4	86.9	108.9	57.9	715.4	3,942.8
Nonmetallic mineral materials and products	827.9	20.9	14.1	134.1	49.7	97.9	1,144.6
Mineral fuels, materials and products	2,518.7	430.5	96.9	43.2	0.1	6,488.7	9,578.2
Total	8,465.8	682.9	282.8	802.1	495.0	7,613.4	18,342.0
Percentage of total mineral imports	46.2	3.7	1.5	4.4	2.7	41.5	100.0

[1] European Free Trade Association includes Austria, Norway, Portugal, Sweden, Switzerland, Finland and Iceland. [2] European Economic Community includes Belgium-Luxembourg, France, Italy, Netherlands, West Germany, Greece, Denmark and Ireland.
P Preliminary.

TABLE 19. CANADA, VALUE OF EXPORTS OF CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS, BY COMMODITY AND DESTINATION, 1981P

	United States	United Kingdom	E.F.T.A.[1]	E.E.C.[2]	Japan	Other Countries	Total
				($ 000)			
Aluminum	1,132,013	7,340	4,630	12,763	229,034	199,695	1,585,475
Asbestos	138,932	30,975	21,133	112,385	43,590	264,282	611,297
Copper	332,281	159,280	77,934	202,262	304,563	111,271	1,187,591
Fuels	9,200,777	5,234	29,605	255,379	753,666	419,328	10,663,989
Iron Ore	923,751	191,903	3,677	303,022	83,483	34,189	1,540,025
Lead	80,226	25,944	4,192	41,025	26,329	16,908	194,624
Molybdenum	14,301	43,752	3,733	151,664	60,247	5,075	278,772
Nickel	530,637	201,935	275,916	102,319	31,862	85,190	1,227,859
Primary ferrous metals	341,281	5,571	39	45,012	18,692	59,002	469,597
Uranium	152,473	18,845	2,862	-	-	5,204	179,384
Zinc	375,276	46,600	3,184	180,175	51,723	105,313	762,271
All other minerals	5,154,634	348,427	70,949	308,702	196,837	1,306,443	7,385,992
Total	18,376,582	1,085,806	497,854	1,714,708	1,800,026	2,611,900	26,086,876

[1] European Free Trade Association includes Austria, Norway, Portugal, Sweden, Switzerland, Finland and Iceland. [2] European Economic Community includes Belgium-Luxembourg, France, Italy, Netherlands, West Germany, Greece, Denmark and Ireland.
P Preliminary; - Nil.

TABLE 20. CANADA, PHYSICAL VOLUME OF IMPORT TRADE FOR SELECTED COMMODITIES, 1975-81

	Units of Weight	1975	1976	1977	1978	1979	1980	1981P
Crude materials								
Metals								
Aluminum ore	tonnes	760 616	908 055	821 596	1 056 190	952 584	983 972	1 020 550
Bauxite ore	tonnes	2 420 669	1 230 052	2 764 286	2 434 435	2 149 636	3 504 368	2 702 282
Iron ore	tonnes	4 844 416	3 020 130	2 505 203	4 685 868	5 912 581	5 875 292	5 794 634
Manganese ore	tonnes	69 773	118 972	57 644	136 446	45 150	95 161	119 746
Nonmetals								
Bentonite	tonnes	242 183	274 095	358 724	353 790	638 307	471 684	311 459
Clay, ground & unground	tonnes	328 987	355 760	334 431	381 486	445 231	403 282	413 040
Fluorspar	tonnes	157 222	137 310	124 494	170 237	167 904	223 940	173 599
Limestone, crushed	tonnes	3 281 800	3 513 824	2 922 684	2 873 601	3 215 717	2 418 330	2 526 808
Phosphate rock	tonnes	3 282 257	2 241 086	2 439 021	3 043 899	3 341 039	3 816 514	3 245 446
Salt & Brine	tonnes	1 183 144	1 523 407	1 126 225	1 330 474	1 275 627	1 151 203	1 254 992
Sand & Gravel	tonnes	1 909 894	2 085 922	1 645 663	1 810 989	1 201 915	1 209 582	1 446 872
Silica sand	tonnes	1 044 160	1 337 139	1 101 186	1 242 444	1 651 890	1 200 237	1 142 880
Fuels								
Coal	tonnes	14 962 896	14 371 622	15 026 358	13 000 320	17 381 794	15 719 025	14 687 279
Petroleum, crude	metres^3	47 446 092	44 027 841	38 042 718	36 754 037	35 330 535	32 710 030	30 154 730
Fabricated materials								
Metals								
Aluminum & Aluminum alloy	tonnes	79 726	115 870	118 216	119 154	168 125	128 061	139 377
Ferroalloys	tonnes	117 920	95 272	93 672	101 160	167 232	118 516	117 907
Steel:								
bars & rods	tonnes	382 990	307 057	301 502	318 336	300 069r	189 853	341 532
castings & forgings	tonnes	108 826	123 609	113 365	116 473	139 095	129 363	116 475
pipes & tubes	tonnes	196 138	169 916	203 238	317 031	285 144	322 121	364 803
sheets & strips	tonnes	582 573	466 172	552 606	704 502	1 039 054	582 233	1 717 433
structural shapes	tonnes	190 655	231 619	225 869	151 502	273 111	207 657	363 406
Nonmetals								
Cement	tonnes	428 777	329 045	263 528	256 721	248 422r	223 247	721 205
Fire bricks	tonnes	229 664	189 599	242 720	156 002	227 156	236 205	187 017
Magnesia & dolomite	tonnes	89 800	45 689	56 189	68 214	92 824	80 916	64 139
Phosphate fertilizers	tonnes	128 045	168 482	200 445	286 744	381 887	248 328	306 502
Fuels								
Coke	tonnes	1 119 013	876 943	1 267 895	1 527 342	1 366 182	1 311 698	1 436 037
Fuel oil	metres^3	1 335 056	1 137 041	1 260 034	1 277 077	871 425r	1 617 606	1 256 795

P Preliminary; r Revised.

TABLE 21. CANADA, PHYSICAL VOLUME OF EXPORT TRADE FOR SELECTED COMMODITIES, 1975-81

	Unit of Weight	1975	1976	1977	1978	1979	1980	1981P
Crude materials								
Metals								
Copper, ores & concentrates	tonnes	314 518	294 823	279 582	282 159	315 211	286 076	276 810
Iron, ores & concentrates	tonnes	36 059 820	44 684 868	45 060 391	31 929 094	48 849 270	39 020 922	41 452 044
Lead, ores & concentrates	tonnes	211 909	140 933	137 820	142 693	151 485	147 008	146 090
Zinc, ores & concentrates	tonnes	705 089	653 737	598 451	688 186	598 279	435 831	516 210
Nonmetals								
Asbestos, crude & fibers	tonnes	1 085 598	1 502 435	1 415 482	1 398 081	1 461 042r	1 217 737	1 062 189
Crude refractory materials	tonnes	536 208	820 645	747 938	1 081 684	1 023 734r	803 892	629 770
Gypsum	tonnes	3 691 676	3 798 243	4 994 323	5 178 631	5 474 764	4 960 240	5 094 873
Limestone, crushed	tonnes	1 217 564	1 287 976	1 502 492	1 710 348	2 296 295	2 214 489	1 758 299
Nepheline syenite	tonnes	356 629	418 975	443 763	420 961	471 056	448 468	476 281
Salt and Brine	tonnes	-	1 423 847	1 163 163	1 608 582	1 822 120	1 655 768	1 507 710
Sand and Gravel	tonnes	138 452	377 677	273 745	269 216	323 639	3a3 533	318 635
Sulphur, crude or refined	tonnes	3 284 246	3 719 992	4 291 032	4 984 545	5 154 831	6 850 143	7 309 216
Fuels								
Coal	tonnes	11 694 655	11 761 930	12 068 905	13 657 514	13 852 848r	14 310 782	16 285 102
Natural gas	thousand metres^3	26 885 865	27 015 710	28 141 415	24 992 242	28 047 648	22 963 134	21 687 359
Fabricated materials								
Metals								
Aluminum, pig ingots	tonnes	512 050	510 751	655 353	863 320	551 957	784 720	725 441
Copper, refinery shapes	tonnes	320 705	322 991	294 490	247 727	191 211	335 200	262 642
Iron, pig ingots	tonnes	406 308	281 577	505 277	544 716	255 523	562 351	466 360
Lead, pig ingots	tonnes	110 882	114 421	130 819	131 950	117 992	126 538	119 815
Zinc, pig ingots	tonnes	247 474	352 071	295 358	439 260	429 352	471 949	453 526
Nonmetals								
Cement	tonnes	934 981	921 031	1 274 652	1 634 582	2 288 822	1 550 562	1 578 659
Lime, quick & hydrated	tonnes	234 034	309 355	359 540	478 551	490 863	403 166	432 845
Peat	tonnes	263 284	296 258	303 414	312 903	358 267	390 457	326 826
Fuels								
Butane gas, liquified	metres^3	2 356 672	2 712 650	2 432 188	2 208 682	2 926 459	2 563 406	3 137 545
Coke	tonnes	257 657	321 636	355 919	352 358r	354 016r	470 496	391 027
Fuel Oil	metres^3	3 781 202	2 092 266	1 456 991	4 232 409	4 654 162	4 273 510	3 846 907
Gasoline	metres^3	775 240	439 222	388 080	972 282	913 271	706 539	600 969
Propane gas, liquified	metres^3	3 512 927	4 048 280	5 019 524	3 543 782	4 858 175	3 879 915	3 867 950

P Preliminary; - Not available; r Revised.

TABLE 22. CANADA, APPARENT CONSUMPTION[1] OF SOME MINERALS, AND RELATION TO PRODUCTION[2], 1979-81

	Unit of Measure	1979[r]			1980			1981[p]		
		Apparent Consumption	Production	Consumption as % of production	Apparent Consumption	Production	Consumption as % of production	Apparent Consumption	Production	Consumption as % of production
Asbestos	t	33 646	1 492 719	2.3	106 472	1 323 053	8.0	71 000	1 133 000	6.3
Cement	t	10 928 566	12 968 966	84.3	9 884 463	11 211 778	88.2	9 781 000	10 368 000	94.3
Gypsum	t	3 585 864	8 908 166	40.3	2 530 695	7 336 218	34.5	2 849 000	7 800 000	36.5
Iron ore		16 680 597	59 617 286	30.0	15 922 485	49 068 115	32.4	14 187 000	49 844 000	28.5
Lime	t	1 409 942	1 859 325	75.8	1 678 379	2 040 644	82.2	2 053 000	2 463 000	83.4
Quartz silica	t	3 549 330	2 368 497	149.9	3 003 599	2 251 831	133.4	2 988 000	2 321 000	128.7
Salt	t	6 334 628	6 881 121	92.1	6 918 289	7 422 854	93.2	7 030 000	7 283 000	96.5

[1] "Apparent consumption" is production, plus imports, less exports. [2] "Production" refers to producers' shipments.
[p] Preliminary; [r] Revised.

TABLE 23. CANADA, REPORTED CONSUMPTION OF MINERALS AND RELATION TO PRODUCTION, 1978-80

	Unit of Measure	1978 Consumption	1978 Production	1978 Consumption as % of production	1979 Consumption	1979 Production	1979 Consumption as % of production	1980P Consumption	1980P Production	1980P Consumption as % of production
Metals										
Aluminum	t	380 291	1 048 469	36.3	399 049	860 287	46.4	329 371	1 068 197	30.8
Antimony	kg	345 282r	..	..	463 423r	..	..	369 732	..	..
Bismuth	kg	25 664	145 104	17.7	25 117	136 753	18.4	10 271	149 366	6.9
Cadmium	kg	47 523	1 151 298	4.1	48 746	209 459	4.0	49 868	1 033 097	4.8
Chromium (chromite)	t	27 472	-	..	27 205	-	..	27 900	-	..
Cobalt	kg	144 610	1 233 777	11.7	114 606	1 639 624	7.0	105 225	2 118 154	5.0
Copper	t	228 694[1]	659 380	34.7	210 689[1]	636 383	33.1	195 124[1]	716 363	27.2
Lead	t	100 762[2]	319 809	31.5	126 464[2]	310 745	40.7	124 813[2]	251 627	49.6
Magnesium	t	3 953	8 309	47.6	4 450	9 015	49.4	5 412	9 252	58.5
Manganese ore	t	201 320	-	..	61 643	-	..	159 243	-	..
Mercury	kg	29 904	-	..	26 249	-	..	36 326	-	..
Molybdenum (Mo content)	kg	1 269	13 943	9.1	1 250	11 175	11.2	1 055	11 889	8.9
Nickel	t	11 790	128 310	9.2	8 336	126 482	6.6	9 676	184 802	5.2
Selenium	kg	14 364	122 405	11.7	15 773	217 759	7.2	10 795	279 626	3.9
Silver	kg	329 320	1 266 927	2.6	251 985	1 146 908	22.0	67 122	1 069 635	6.3
Tellurium	kg	..	31 421	..	..	42 433	..	..	15 011	..
Tin	t	4 922	360	1 367.2	4 675	338	1 383.1	4 507	243	1 854.7
Tungsten (W content)	kg	388 146	2 885 619	13.5	380 229	3 254 067	11.7	290 479	4 006 647	7.3
Zinc	t	121 375	1 066 902	11.4	131 317	1 099 926	11.9	107 879	883 697	12.2
Nonmetals										
Barite	t	58 123	99 339	58.5	79 595	73 512	108.3	142 421	94 317	151.0
Feldspar	t	4 586	-	..	4 588r	-	..	4 051	-	..
Fluorspar	t	128 280	-	..	107 004	-	..	131 262	-	..
Mica	kg	3 793r	..	..	2 208r	-	..	2 576	..	..
Nepheline syenite	t	88 806	599 121	14.8	86 788r	605 699	14.3	84 873	599 699	14.2
Phosphate rock	t	3 029 600r	-	..	3 203 400r	-	..	3 546 636	-	..
Potash (K_2O)	t	..	6 344 010	..	..	7 074 388	..	..	7 201 217	..
Sodium sulphate	t	227 766	376 563	60.5	255 050	443 279	57.5	232 045	480 666	48.3
Sulphur	t	799 709	5 752 208	13.9	976 730r	6 314 144	15.5	817 362	7 655 723	10.7
Talc, etc.	t	43 119	61 661	69.9	46 940	90 330	52.0	42 217	91 848	44.0
Fuels										
Coal	t	31 738	30 478	104.1	34 764	33 200	104.7	37 333	36 688	101.8
Natural gas	000 m^3	42 543r[3]	80 609	52.8	44 156r[3]	94 426	46.8	44 820[3]	87 108	51.5
Crude oil	m^3	105 485r[4]	76 348	138.2	113 150r[4]	86 910	130.2	109 869[4]	83 477	131.6

Note: Unless otherwise stated, consumption refers to reported consumption of refined metals or nonmetallic minerals by consumers. Production of metals, in most cases, refers to production in all forms, and includes the recoverable content of ores, concentrates, matte, etc., and metal content of primary products recoverable at domestic smelters and refineries. Production of nonmetals refers to producers' shipments. For fuels, production is equivalent to actual output less waste.

[1] Producers domestic shipments of refined metal. [2] Includes primary and secondary refined metal. [3] Domestic sales. [4] Refinery receipts.

P Preliminary; - Nil; .. Not available or not applicable; r Revised.

TABLE 24. CANADA, DOMESTIC CONSUMPTION OF PRINCIPAL REFINED METALS IN RELATION TO REFINERY PRODUCTION[1], 1974–80

	Unit of Measure	1974	1975	1976	1977	1978	1979	1980P
Copper								
Domestic consumption[2]	tonnes	247 985	185 194	206 205	200 372	228 694	210 689	195 124
Production	tonnes	559 125	529 199	510 469	508 767	446 278	397 263	505 238
Consumption of production	%	44.4	35.0	40.4	39.4	51.2	53.0	38.6
Zinc								
Domestic consumption[3]	tonnes	117 619	98 280	98 897	105 412	121 375	131 317	107 879
Production	tonnes	437 725	426 902	472 316	494 938	495 243	580 449	591 565
Consumption of production	%	26.9	23.0	20.9	21.3	24.5	22.6	18.2
Lead								
Domestic consumption[3]	tonnes	99 734	89 192	107 654	106 962	100 762	126 464	124 813
Production	tonnes	126 460	171 517	175 720	187 457	194 054	183 769	162 463
Consumption of production	%	78.9	52.0	61.3	57.1	51.9	68.8	76.8
Aluminum								
Domestic consumption[4]	tonnes	359 790	293 280	332 206	322 393	380 291	399 049	329 371
Production	tonnes	1 006 632	878 056	628 049	973 524	1 048 469	860 287	1 068 197
Consumption of production	%	35.7	33.4	51.3	34.1	36.3	46.4	30.8

[1] Production of refined metal from all sources, including metal derived from secondary materials at primary refineries. [2] Producers' domestic shipments of refined metal. [3] Consumption of primary and secondary refined metal, reported by consumers. [4] Consumption of primary refined metal, reported by consumers.

P Preliminary.

TABLE 25. AVERAGE ANNUAL PRICES[1] OF SELECTED MINERALS, 1975-81[2]

	Unit of Measure	1975	1976	1977	1978	1979	1980	1981
Aluminum, major U.S. producer	cents/lb	39.786	44.341	51.339	53.075	59.395	69.566	76.000
Antimony, New York dealer	$/lb	1.494	1.561	1.237	1.145	1.407	1.508	1.355
Asbestos, No. 4 cement fibre	Cdn $/st	389.333	492.000	551.000	642.000	687.000	769.000	850
Bismuth, U.S. producer	$/lb	7.715	7.500	6.010	3.378	3.011	2.637	..
Cadmium, U.S. producer	$/lb	3.355	2.662	2.962	2.450	2.760	2.843	1.927
Calcium, metal crowns	$/lb	1.315	1.335	1.482	1.680	1.868	2.502	2.831
Chrome, U.S. metal, 9% carbon	$/lb	2.570	2.640	2.900	3.080	3.375	4.017	4.450
Cobalt metal, shot/cathode/250 kg	$/lb	3.979	4.508	5.633	12.246	24.583	25.000	..
Columbium, pyrochlore	$/lb	1.560	n	n	2.550	2.550	2.550	3.250
Copper, electrolytic cathode	Cdn $/lb	0.638	0.684	0.695	0.746	1.076	1.178	1.004
Gold, London[3]	Cdn $/troy oz	163.781	123.107	157.089	220.407	359.289	716.087	551.178
Iridium, major producer	$/troy oz	475.000	316.667	300.000	300.000	258.333	505.833	600.000
Iron ore, taconite pellets	cents/ltu	45.686	51.012	55.300	57.108	63.966	69.562	80.073
Lead, producer	Cdn cents/lb	20.26	22.65	31.42	36.82	59.92	49.35	44.52
Manganese, U.S. metal, regular	cents/lb	54.000	55.333	58.000	58.000	58.333	65.267	70.000
Magnesium, U.S. primary ingot	cents/lb	82.000	89.537	97.487	100.500	105.758	116.667	130.250
Mercury, New York	$/flask (76 lb)	158.115	121.302	135.710	153.322	281.096	389.447	413.885
Molybdenum, climax concentrate	$/lb	2.493	2.999	3.730	4.644	7.762	9.768	8.493
Nickel, major producer cathode	$/lb	2.073	2.256	2.360	2.091	2.707	3.415	3.429
Osmium, major producer	$/troy oz	200.000	200.000	170.000	150.000	150.000	150.000	150.000
Palladium, major producer	$/troy oz	92.702	50.928	59.702	70.873	113.143	213.975	129.500
Platinum, major producer	$/troy oz	164.005	161.729	162.544	237.250	351.649	439.425	475.000
Potash, K_2O, coarse major producer	cents/lb	65.667	74.667	76.000	80.583	100.417	112.667	120.75
Rhodium, major producer	$/troy oz	337.50	350.000	441.667	516.667	737.500	764.583	639.583
Ruthenium, major producer	$/troy oz	60.000	60.000	60.000	60.000	45.000	45.000	45.000
Selenium, major producer commercial	$/lb	18.000	18.000	17.000	15.000	12.250	9.654	..
Silver, fob Toronto	Cdn $/troy oz	4.506	4.298	4.920	6.171	12.974	24.099	12.617
Sulphur, elemental, major producer	Cdn $/lt	22.831	17.204	15.678	17.913	25.665	30.740[5]	59.323[5]
Tantalum, Tanco	$/lb	15.000	16.000	17.750	26.479	60.014	97.604	100.83
Tellurium, major producer, slab	$/lb	9.333	10.500	17.416	20.000	20.000	19.500	..
Tin	Cdn $/lb	3.529	3.822	5.779	7.265	8.898	10.008	8.893
Titanium, ilmenite ore	$/lt	55.000	55.000	55.000	53.229	51.083	55.000	68.021
Tungsten, U.S. hydrogen red	$/lb	10.210	10.087	14.065	13.900	13.900	13.900	13.900
Uranium, U[4]	Cdn $/lb	23.60	47.20	49.90	56.70	59.00	61.20	50.00
Vanadium, pentoxide metal	$/lb	2.980	2.600	2.750	2.900	3.050	3.050	3.250
Zinc, special high grade	Cdn cents/lb	37.50	37.62	35.53	34.757	43.717	44.050	54.24

[1] Prices except for noted, are in United States currency. [2] Sources for prices include: Alberta Energy Resource Industries Monthly Statistics, Asbestos, Engineering and Mining Journal, Metals Week and Northern Miner. [3] Average P.M. fixings of London bullion dealers, converted to Canadian dollar. [4] From EMR publications on assessment of Canada's uranium supply and demand series EP 76-3 to EP 81-3.
[5] Starting 1980, North American deliveries.
.. Not available; n Nominal.

TABLE 26. CANADA, MINERAL PRODUCTS INDUSTRIES, SELLING PRICE INDEXES, 1975-81 (1971 = 100)

	1975	1976	1977	1978	1979	1980	1981P
Iron and steel products industries							
Agricultural implements industry	155.2	165.7	177.6	188.7	206.0	224.9	259.6
Hardware, tool and cutlery manufacturers	137.9	147.3	162.6	179.1	207.3	238.4	268.7
Heating equipment manufacturers	137.3	146.9	156.5	169.8	188.0	213.2	235.6
Primary metal industries	160.8	169.9	190.5	207.7	258.8	308.3	312.6
Iron and steel mills	162.0	177.2	187.9	203.5	233.7	261.7	290.3
Steel pipe and tube mills	162.9	179.1	197.8	218.0	248.1	276.9	322.1
Iron foundries	168.4	181.0	189.6	200.1	223.3	243.2	261.8
Wire and wire products manufacturers	158.3	171.0	175.4	185.8	206.4	226.9	242.3
Nonferrous metal products industries							
Aluminum rolling, casting and extruding	145.4	155.8	173.6	191.5	234.0	271.0	292.6
Copper and alloy, rolling, casting and extruding	131.6	138.4	144.5	153.0	201.8	219.7	206.1
Jewellery and silverware manufacturers	234.1	235.2	277.8	337.6	507.3	871.3	676.1
Metal rolling, casting and extruding, nes	171.8	181.0	216.3	239.8	310.4	327.3	326.1
Nonmetallic mineral products industries							
Abrasives manufacturers	140.5	167.5	194.7	223.6	255.3	290.6	324.4
Cement manufacturers	146.3	171.1	186.7	207.5	233.2	265.7	308.0
Clay products and manufacturers from imported clay	151.0	161.7	164.7	173.7	190.1	215.2	251.9
Glass and glass products manufacturers	127.1	138.6	150.4	162.1	173.4	197.0	222.7
Lime manufacturers	181.7	204.3	228.7	252.9	292.7	338.3	395.6
Concrete products manufacturers	152.0	161.5	173.7	187.7	200.1	222.5	258.7
Clay products from domestic clay	157.1	169.6	182.8	196.4	214.3	226.9	243.0
Petroleum and coal products industries	183.7	210.2	244.5	275.4	321.3	404.6	551.8
Petroleum refineries	184.5	211.5	246.7	278.7	325.8	410.6	559.8
Mixed fertilizers	204.0	176.9	180.2	191.0	229.0	280.3	290.5

Note: Industry selling price indexes reflect wholesale price trends of products or groups of products sold by the industries listed.

P Preliminary; nes Not elsewhere specified.

TABLE 27. CANADA, PRINCIPAL STATISTICS OF THE MINING INDUSTRY[1], 1980

	Mining Activity								Total Activity[2]		
		Production and Related Workers			Costs						
	Establishments (number)	Employees (number)	Man-hours paid (000)	Wages ($000)	Fuel and Electricity ($000)	Materials and Supplies ($000)	Value of Production ($000)	Value Added ($000)	Employees (number)	Salaries and Wages ($000)	Value Added ($000)
Metals											
Gold quartz	27	4,781	10,132	103,293	18,665	93,742	696,720	584,313	5,839	127,869	588,752
Copper-gold-silver	33	12,299	26,338	289,899	93,736	829,793	2,474,922	1,551,394	16,637	402,214	1,558,568
Silver-lead-zinc	22	5,275	10,565	122,248	42,106	442,965	1,007,896	522,825	7,349	180,430	513,573
Nickel-copper	3	11,148	21,382	220,481	23,327	641,698	2,097,139	1,432,115	14,426	314,411	1,433,649
Iron	15	8,264	17,035	216,280	174,165	657,409	1,872,690	1,041,116	13,753	374,529	1,005,060
Uranium	7	4,463	9,230	107,209	31,336	137,780	722,522	553,406	6,304	152,426	599,322
Misc. metal mines	7	1,362	2,849	32,438	11,555	53,690	307,771	242,526	1,810	44,285	243,300
Total	114	47,592	97,532	1,091,848	394,889	2,857,076	9,179,660	5,927,695	66,118	1,596,165	5,902,224
Nonmetals											
Asbestos	9	6,473	14,179	149,995	52,876	132,795	655,551	469,880	8,055	193,462	473,425
Gypsum	11	599	1,326	8,702	2,739	11,065	40,838	27,033	715	10,990	26,863
Peat	55	1,080	2,245	13,459	2,147	11,431	53,627	40,050	1,308	17,301	42,686
Potash	10	3,094	6,533	69,661	54,675	92,556	1,046,261	899,029	4,160	97,173	900,380
Salt	9	931	2,164	19,432	9,931	19,882	124,308	94,495	1,418	30,184	93,722
Sand and gravel	113	1,331	2,871	23,352	10,010	23,352	121,213	87,851	1,801	34,592	92,094
Stone	115	2,077	4,466	39,206	14,394	55,762	192,188	122,032	2,660	51,633	123,376
Misc. nonmetals	28	1,060	2,188	19,197	14,234	20,616	95,121	60,270	1,323	24,601	59,050
Total	350	16,645	35,973	343,004	161,007	367,459	2,329,107	1,800,640	21,440	459,936	1,811,596
Fuels											
Coal	26	9,428	19,328	200,951	49,068	242,043	913,302	622,191	11,416	250,338	621,630
Oil, crude and natural gas	833	6,401	13,594	143,586	101,441	335,484	15,239,177	14,802,252	27,448	673,031	15,012,232
Total	859	15,829	32,922	344,537	150,509	577,527	16,152,479	15,424,443	38,864	923,369	15,633,862
Total mining industry	1,323	80,066	166,427	1,779,389	706,405	3,802,062	27,661,246	23,152,778	126,422	2,979,470	23,347,682

[1] Cement manufacturing, lime manufacturers, clay and clay products (domestic clays) are included in the mineral manufacturing industry. Industry coverage is the same as in Tables 29, 31 and 33. [2] Total activity includes sales and head offices.

TABLE 28. CANADA, PRINCIPAL STATISTICS OF THE MINERAL MANUFACTURING INDUSTRIES[1], 1980

	Mineral Manufacturing Activity								Total Activity[2]		
		Production and related workers			Costs						
	Establishments (number)	Employees (number)	Man-hours paid (000)	Wages ($000)	Fuel and Electricity ($000)	Materials and Supplies ($000)	Value of Production ($000)	Value Added ($000)	Employees (number)	Salaries and Wages ($000)	Value Added ($000)
Primary metal industries											
Iron and steel mills	55	47,854	100,969	1,013,918	359,226	3,638,582	6,431,455	2,545,602	61,238	1,364,629	2,537,850
Steel pipe and tube mills	35	5,462	12,129	116,280	18,627	663,756	972,250	293,863	6,514	142,888	297,623
Iron foundries	120	7,638	15,404	122,801	23,686	223,675	512,726	261,309	9,245	157,704	266,858
Smelting and refining	32	24,512	52,010	528,680	298,046	1,211,908	3,273,169	1,763,214	36,137	824,509	1,849,225
Aluminum rolling, casting and extruding	77	4,768	10,275	81,826	16,881	762,340	1,049,304	274,450	6,627	122,918	273,491
Copper and alloy rolling casting and extruding	42	2,707	5,366	47,854	8,633	451,883	573,285	105,500	3,230	59,530	103,726
Metal rolling, casting and extruding, nes	99	4,589	9,405	69,064	13,219	390,025	605,645	200,033	5,749	95,267	203,564
Total	460	97,530	205,558	1,980,423	738,318	7,342,169	13,417,834	5,443,971	128,740	2,767,445	5,532,337
Nonmetallic mineral products industries											
Cement manufacturers	28	2,909	6,173	73,280	136,153	134,499	611,742	352,930	4,791	122,686	357,250
Lime manufacturers	15	759	1,589	15,476	38,451	17,694	114,897	58,948	1,003	21,112	59,489
Concrete products manufacturers	488	6,888	14,044	120,928	18,402	229,040	566,325	315,574	9,280	168,375	323,883
Ready-mix concrete manufacturers	500	7,196	15,011	147,953	31,638	537,335	898,347	332,067	9,348	191,703	352,414
Clay products manufacturers (domestic)	113	2,350	4,848	35,892	18,491	28,295	127,791	84,151	2,993	49,653	84,635
Clay products manufacturers (imported)	35	1,523	3,015	21,526	4,397	30,067	83,447	50,698	1,882	28,181	51,630
Refractories manufacturers	20	926	2,054	16,512	4,564	78,434	135,657	56,358	1,630	31,100	73,646
Stone products manufacturers	128	1,104	2,245	15,710	1,326	23,379	57,251	33,215	1,315	19,203	33,175
Glass manufacturers	14	6,517	13,450	112,258	44,115	147,084	484,347	311,844	8,608	158,395	308,116
Glass products manufacturers	101	2,869	5,962	46,763	6,061	120,893	260,869	137,967	3,439	59,720	143,601
Abrasive manufacturers	25	1,959	4,037	32,184	23,573	94,055	202,006	88,332	2,628	47,256	92,112
Other nonmetallic mineral products industries	104	5,799	12,091	104,772	46,915	287,447	686,493	356,352	9,173	179,685	374,825
Total	1,571	40,799	84,489	743,254	376,086	1,728,182	4,229,172	2,178,436	56,086	1,077,069	2,254,776
Petroleum and coal products industries											
Petroleum refining industry	41	7,356	16,371	187,090	155,881	12,756,411	14,255,804	1,742,049	18,743	515,911	1,750,101
Manufacture of lubricating oils & greases	21	507	1,032	8,174	1,681	138,826	158,649	20,309	771	14,579	26,668
Other petroleum & coal products industries	50	414	862	8,422	2,936	79,984	115,876	33,201	532	11,061	35,986
Total	112	8,277	18,265	203,686	160,498	12,975,221	14,530,329	1,795,559	20,046	541,551	1,812,755
Total, mineral manufacturing industries	2,143	146,606	308,312	2,927,363	1,272,902	22,045,572	32,177,335	9,417,966	204,872	4,386,065	9,599,868

[1] Industry coverage is the same as in Tables 28, 30 and 32. [2] Includes sales and head offices.
nes - Not elsewhere specified.

TABLE 29. CANADA, PRINCIPAL STATISTICS OF THE MINING INDUSTRY[1], 1974-80

	Mineral Manufacturing Activity								Total Activity[2]		
		Production and Related Workers			Costs						
	Establishments (number)	Employees (number)	Man-hours paid (000)	Wages ($000)	Fuel and Electricity ($000)	Materials and Supplies ($000)	Value of Production ($000)	Value Added ($000)	Employees (number)	Salaries and Wages ($000)	Value Added ($000)
1974	1,438	79,928	165,999	894,538	285,767	2,004,476	11,187,764	8,897,522	118,730	1,450,330	8,929,981
1975	1,345	77,091	159,431	1,030,009	319,496	2,214,191	12,240,016	9,706,329	115,715	1,655,278	9,750,032
1976	1,244	78,989	163,426	1,185,184	401,899	2,438,672	14,178,010	11,337,439	117,694	1,902,682	11,360,511
1977	1,232	79,902[r]	167,884	1,342,508	473,202	2,715,468	16,400,460	13,211,792	119,061[r]	2,137,523	13,246,689
1978	1,179	70,306	150,291	1,275,008	501,335	2,766,072	18,201,459	14,934,052	109,948	2,118,342	15,016,214
1979	1,150	72,580	152,560	1,493,773	600,448	3,252,991	23,546,742	19,693,303	115,245	2,492,715	19,899,635
1980	1,323	80,066	166,427	1,779,389	706,405	3,802,062	27,661,246	23,152,778	126,422	2,979,470	23,347,682

[1] Cement manufacturing, lime manufacturers, clay and clay products (domestic clays) are included in the mineral manufacturing industries. Industry coverage is the same as in Tables 27, 31 and 35. [2] Includes sales and head offices.

[r] Revised.

TABLE 30. CANADA, PRINCIPAL STATISTICS OF THE MINERAL MANUFACTURING INDUSTRIES[1], 1974–80

	Mineral Manufacturing Activity								Total Activity[2]		
		Production and Related Workers			Costs						
	Establishments (number)	Employees (number)	Man-hours paid (000)	Wages ($000)	Fuel and electricity ($000)	Materials and supplies ($000)	Value of production ($000)	Value added ($000)	Employees (number)	Salaries and wages ($000)	Value added ($000)
1974	1,708	145,209	309,481	1,582,014	463,395	8,809,583	14,003,237	5,110,117	197,220	2,315,107	5,236,626
1975	1,680	140,195	290,264	1,712,892	541,650	9,724,522	15,205,070	5,183,708	193,526	2,580,313	5,316,534
1976	1,662	137,310	284,392	1,898,753	655,828	10,798,653	16,793,147	5,548,868	188,751	2,820,873	5,687,750
1977	1,616	138,700	288,409	2,110,400	798,486	12,743,217	19,725,082	6,489,111	189,576	3,114,744	6,594,794
1978	2,022	143,917	297,554	2,365,782	981,506	15,700,614	24,036,539	7,272,298	198,085	3,494,336	7,421,897
1979	2,115	145,929	308,770	2,614,816	1,118,146	19,116,369	28,318,690	8,522,128	202,695	3,910,454	8,669,240
1980	2,143	146,606	308,312	2,927,363	1,272,902	22,045,572	32,177,335	9,417,966	204,872	4,386,065	9,599,868

[1] Industry coverage is the same as in Tables 28, 32 and 34. [2] Includes sales and head offices.

TABLE 31. CANADA, CONSUMPTION OF FUEL AND ELECTRICITY IN THE MINING INDUSTRY[1], 1980

	Unit	Metals	Nonmetals	Fuels	Total
Coal and coke	000 t	156	12	-	168
	$000	6,239	191	-	6,430
Gasoline	000 litres	29 496	22 806	8 153	60 455
	$000	7,328	5,636	1,963	14,927
Fuel oil, kerosene, diesel oil	000 litres	1 251 607	347 200	131 779	1 730 586
	$000	176,441	60,658	22,181	259,280
Liquefied petroleum gas	000 litres	97 130	5 675	5 923	108 728
	$000	13,259	976	844	15,079
Natural gas	000 m^3	184 476	755 835	106 000	1 046 311
	$000	16,378	45,211	7,594	69,183
Other fuels[2]	$000	407	-	-	407
Total value of fuels	$000	220,052	112,672	32,582	365,306
Electricity purchased	million kwh	11 024	2 269	3 504	16 797
	$000	174,837	48,336	117,927	341,100
Total value of fuels and electricity purchased, all reporting companies	$000	394,889	161,008	150,509	706,406

[1] Cement and lime manufacturing and manufacturers of clay products (domestic clays) are included under mineral manufacturing, Tables 32 and 34. Industry coverage is the same as in Tables 27, 29, and 33. [2] Includes wood, manufactured gas, steam purchased and other miscellaneous fuels.

- Nil.

Note: Totals may not add due to rounding.

TABLE 32. CANADA, CONSUMPTION OF FUEL AND ELECTRICITY IN THE MINERAL MANUFACTURING INDUSTRIES[1], 1980

	Unit	Primary Metal Industries	Nonmetallic Mineral Products Industries	Petroleum and Coal Products Industries	Total
Coal and coke	000 t	378	435	-	813
	$000	36,700	20,791	-	57,491
Gasoline	000 litres	19 514	37 642	3 009	60 165
	$000	4,320	8,497	727	13,545
Fuel oil, kerosene, diesel oil	000 litres	1 279 315	760 427	15 236	2 054 979
	$000	153,574	97,955	2,295	253,824
Liquefied petroleum gas	000 litres	33 718	18 948	28 462	81 128
	$000	4,606	2,812	2,333	9,751
Natural gas	000 m^3	2 750 899	1 689 350	1 037 308	5 477 557
	$000	217,618	133,620	77,534	428,771
Other fuels	$000	4,608	7,806	5,422	17,836
Total value of fuels	$000	421,426	271,481	88,311	781,218
Electricity purchased	million kWh	20 535	4 633	3 705	28 873
	$000	316,884	102,765	72,186	491,834
Total value of fuels and electricity purchased, all reporting companies	$000	738,317	374,248	160,498	1,273,063

[1] Industry coverage is the same as in Tables 28, 30 and 34.
- Nil.

TABLE 33. CANADA, COST OF FUEL AND ELECTRICITY USED IN THE MINING INDUSTRY[1], 1974-80

	Unit	1974	1975	1976	1977	1978	1979	1980
Metals								
Fuel	$000	90,596	107,808	128,637	148,578	153,608	193,828	220,052
Electricity purchased	million kwh	10 282	10 259	11 326	11 713	10 739	11 459	11 024
	$000	77,669	85,063	107,318	135,014	132,100	153,905	174,837
Total cost of fuel and electricity	$000	168,265	192,871	235,955	283,591	285,708	347,733	394,889
Nonmetals[2]								
Fuel	$000	42,209	46,561	62,453	72,946	79,090	92,499	112,672
Electricity purchased	million kwh	2 015	1 763	1 959	2 457	2 082	2 244	2 269
	$000	20,065	20,049	23,401	29,510	35,141	42,982	48,336
Total cost of fuel and electricity	$000	62,274	66,610	85,854	102,456	114,231	135,481	161,008
Fuels								
Fuels	$000	5,755	11,352	12,015	15,117	19,774	23,988	32,582
Electricity purchased	million kwh	2 972	2 539	2 770	2 791	2 699	3 238	3 504
	$000	49,473	48,663	68,075	72,035	81,624	98,783	117,927
Total cost of fuel and electricity	$000	55,228	60,015	80,090	87,152	101,398	122,771	150,509
Total mining industry								
Fuel	$000	138,560	165,721	203,105	236,642	252,470	310,315	365,306
Electricity purchased	million kwh	15 267	14 560	16 055	16 961	15 520	16 941	16 797
	$000	147,207	153,775	198,794	236,559	248,865	295,670	341,100
Total cost of fuel and electricity	$000	285,767	319,496	401,899	473,201	501,335	605,985	706,406

[1] Cement and lime manufacturing and manufacture of clay products (domestic clays) are included in mineral manufacturing, Tables 32 and 34. Industry coverage is the same as in Tables 27, 29 and 31. [2] Includes structural materials.

TABLE 34. CANADA, COST OF FUEL AND ELECTRICITY USED IN THE MINERAL MANUFACTURING INDUSTRIES[1], 1974-80

	Unit	1974	1975	1976	1977	1978	1979	1980
Primary metals								
Fuel	$ 000	153,468	187,846	224,928	279,172	336,684	357,775	421,426
Electricity purchased	million kwh	17 727	16 544	16 497	15 352	17 257	18 451	20 535
	$ 000	122,567	129,750	151,011	183,574	226,313	260,317	316,884
Total cost of fuel and electricity	$ 000	276,035	317,596	375,939	462,746	562,997	618,092	738,317
Nonmetallic mineral products								
Fuel	$ 000	112,531	133,016	162,312	181,952	221,855	280,846	271,481
Electricity purchased	million kwh	4 106	3 723	4 137	4 190	4 782	5 163	4 633
	$ 000	38,671	41,258	52,113	65,553	79,606	98,296	102,765
Total cost of fuel and electricity	$ 000	151,202	174,274	214,425	247,507	301,461	379,142	374,248
Petroleum and coal products								
Fuel	$ 000	13,275	21,758	30,474	42,184	61,891	74,968	88,311
Electricity purchased	million kwh	2 715	2 904	3 010	3 205	3 505	3 555	3 705
	$ 000	22,885	28,028	34,988	46,050	55,303	63,395	72,186
Total cost of fuel and electricity	$ 000	36,160	49,786	65,462	88,233	117,194	138,363	160 498
Total mineral manufacturing industries								
Fuel	$ 000	279,274	342,620	417,714	503,308	620,430	713,589	781,218
Electricity purchased	million kWh	24 548	23 171	23 644	22 747	25 544	27 169	28 873
	$ 000	184,123	199,036	238,112	295,177	361,222	422,008	491,834
Total cost of fuel and electricity	$ 000	463,397	541,656	655,826	798,486	981,652	1,135,597	1,273,063

[1] Industry coverage is the same as in Tables 28, 30 and 32.

TABLE 35. CANADA, EMPLOYMENT, SALARIES AND WAGES IN THE MINING INDUSTRY[1], 1974-80

	Unit	1974	1975	1976	1977	1978	1979	1980
Metals								
Production and related workers	Number	50,886	50,319	49,834	49,414	39,977	41,541	47,592
Salaries and wages	$000	580,185	685,562	759,499	869,345	757,258	879,383	1,091,848
Annual average salary and wage	$	11,402	13,624	15,241	17,588	18,942	21,169	22,942
Administrative and office workers	Number	19,152	18,842	18,435	17,831	16,470	17,419	18,526
Salaries and wages	$000	282,348	320,873	352,847	377,714	358,680	428,639	504,316
Annual average salary and wage	$	14,732	17,030	19,140	21,183	21,778	24,608	27,222
Total metals								
Employees	Number	70,038	69,161	68,269	67,245	56,447	58,960	66,118
Salaries and wages	$000	862,533	1,006,435	1,112,346	1,227,059	1,115,938	1,308,022	1,596,165
Annual average salary and wage	$	12,315	14,552	16,294	18,248	19,770	22,185	24,141
Nonmetals								
Production and related workers	Number	17,767	15,397	16,447	16,812	16,133	16,633	16,645
Salaries and wages	$000	180,962	188,956	237,982	266,294	274,037	321,303	343,004
Annual average salary and wage	$	10,185	12,272	14,470	15,840	16,986	19,317	20,607
Administrative and office workers	Number	4,628	4,688	4,887	4,986	4,749	4,829	4,795
Salaries and wages	$000	57,243	69,208	82,861	89,757	95,659	106,776	116,932
Annual average salary and wage	$	12,369	14,763	16,955	18,002	20,143	22,114	24,386
Total nonmetals								
Employees	Number	22,395	20,085	21,334	21,798	20,882	21,462	21,440
Salaries and wages	$000	238,205	258,164	320,843	356,051	369,696	428,079	459,936
Annual average salary and wage	$	10,637	12,854	15,039	16,334	17,704	19,946	21,452
Fuels								
Production and related workers	Number	11,275	11,375	12,708	13,679	14,196	14,406	15,829
Salaries and wages	$000	133,392	155,491	187,704	226,869	243,713	293,087	344,537
Annual average salary and wage	$	11,831	13,670	14,771	16,585	17,168	20,345	21,766
Administrative and office workers	Number	15,022	15,094	15,383	16,342	18,423	20,417	23,035
Salaries and wages	$000	216,200	235,188	281,789	327,544	388,995	463,527	578,832
Annual average salary and wage	$	14,392	15,582	18,318	20,043	21,115	22,703	25,128
Total fuels								
Employees	Number	26,297	26,469	28,091	30,021	32,619	34,823	38,864
Salaries and wages	$000	349,592	390,679	469,493	554,413	632,708	756,614	923,369
Average annual salary and wage	$	13,294	14,760	16,713	18,468	19,397	21,727	23,759
Total mining								
Production and related workers	Number	79,928	77,091	78,989	79,905	70,306	72,580	80,066
Salaries and wages	$000	894,538	1,030,009	1,185,184	1,342,508	1,275,008	1,493,773	1,779,389
Average annual salary and wage	$	11,192	13,361	15,004	16,801	18,135	20,581	22,224
Administrative and office workers	Number	38,802	38,624	38,705	39,159	39,642	42,665	46,356
Salaries and wages	$000	555,792	625,269	717,498	795,015	843,335	998,942	1,200,081
Annual average salary and wage	$	14,324	16,189	18,538	20,302	21,274	23,414	25,888
Total mining								
Employees	Number	118,730	115,715	117,694	119,064	109,948	115,245	126,422
Salaries and wages	$000	1,450,330	1,655,278	1,902,682	2,137,523	2,118,343	2,492,715	2,979,470
Annual average salary and wage	$	12,215	14,305	16,166	17,954	19,267	21,630	23,568

[1] Does not include cement and lime manufacturing and clay products (domestic clays) manufacturing. These industries are included in Table 36 under "Nonmetallic mineral products industries". See Table 27 for detail of industries.

TABLE 36. CANADA, EMPLOYMENT, SALARIES AND WAGES IN THE MINERAL MANUFACTURING INDUSTRIES[1], 1974-80

	Unit	1974	1975	1976	1977	1978	1979	1980
Primary metal industries								
Production and related workers	Number	94,538	90,169	88,939	91,683	93,798	95,942	97,530
Salaries and wages	$000	1,052,519	1,119,159	1,241,893	1,399,390	1,544,412	1,725,906	1,980,423
Annual average salary and wage	$	11,133	12,412	13,963	15,263	16,465	17,989	20,306
Administrative and office workers	Number	27,681	30,161	28,102	27,536	28,198	30,812	28,920
Salaries and wages	$000	403,151	493,764	511,236	545,957	597,544	713,279	787 022
Annual average salary and wage	$	14,564	16,371	18,192	19,827	21,191	23,149	27 214
Total primary metal industries								
Employees	Number	122,219	120,330	117,041	119,219	121,996	126,754	126,450
Salaries and wages	$000	1,455,671	1,612,923	1,753,128	1,945,347	2,140,956	2,432,183	2,767,445
Annual average salary and wage	$	11,910	13,404	14,979	16,317	17,549	19,188	21,886
Nonmetallic mineral products industries								
Production and related workers	Number	42,884	42,149	41,272	39,321	41,297	41,813	40,799
Salaries and wages	$000	424,096	471,666	529,264	564,444	638,132	710,622	743,254
Annual average salary and wage	$	9,889	11,186	12,824	14,355	15,452	16,995	18,217
Administrative and office workers	Number	14,682	13,783	13,749	13,187	14,039	14,935	15,287
Salaries and wages	$000	180,802	197,884	218,164	229,855	264,166	297,211	333,815
Annual average salary and wage	$	12,314	14,357	15,868	17,430	18,295	19,900	21,837
Total nonmetallic mineral products								
Employees	Number	57,566	55,932	55,021	52,508	55,736	56,748	56,086
Salaries and wages	$000	604,898	669,550	747,428	794,299	902,318	1,007,833	1,077,069
Annual average salary and wage	$	10,507	11,967	13,584	15,127	16,189	17,760	19,203
Petroleum and coal products industries								
Production and related workers	Number	7,787	7,877	7,099	7,696	8,822	8,174	8,277
Salaries and wages	$000	105,398	122,268	127,596	146,566	183,218	185,290	203,686
Annual average salary and wage	$	13,535	15,522	17,974	19,044	20,768	22,668	24,609
Administrative and office workers	Number	9,648	9,387	9,590	10,153	11,531	11,019	11,769
Salaries and wages	$000	149,140	175,772	192,722	228,532	267,844	285,148	337,865
Annual average salary and wage	$	15,458	18,725	20,096	22,509	23,228	25,887	28,708
Total petroleum and coal products								
Employees	Number	17,435	17,264	16,689	17,849	20,353	19,193	20,046
Salaries and wages	$000	254,539	298,040	320,316	375,098	451,062	470,438	541,551
Annual average salary and wage	$	14,599	17,264	19,193	21,015	22,162	24,511	27,015
Total mineral manufacturing								
Production and related workers	Number	145,209	140,195	137,310	138,700	143,917	145,929	146,606
Salaries and wages	$000	1,582,014	1,712,892	1,898,751	2,110,400	2,365,782	2,621,816	2,927,363
Annual average salary and wage	$	10,895	12,218	13,828	15,216	16,439	17,966	19,968
Administrative and office workers	Number	52,011	53,331	51,441	50,876	54,168	56,766	55,976
Salaries and wages	$000	733,093	867,421	922,122	1,004,344	1,129,554	1,295,638	1,458,702
Annual average salary and wage	$	14,095	16,269	17,926	19,741	20,853	22,824	26,059
Total mineral manufacturing industries								
Employees	Number	197,220	193,526	188,751	189,576	198,085	202,695	202,582
Salaries and wages	$000	2,315,107	2,580,313	2,820,872	3,114,744	3,494,336	3,910,454	4,386,065
Annual average salary and wage	$	11,739	13,333	14,945	16,430	17,641	19,292	21,651

Note: See footnote, Table 35. See Table 28 for detail of industries covered.

TABLE 37. CANADA, NUMBER OF WAGE EARNERS EMPLOYED IN THE MINING INDUSTRY, (SURFACE, UNDERGROUND AND MILL), 1974-80

	1974	1975	1976	1977	1978	1979	1980
Metals							
Surface	16,229	16,230	16,143	16,115	12,901	12,664	14,347
Underground	21,045	20,555	20,043	19,482	15,682	15,906	19,308
Mill	13,612	13,534	13,648	13,817	11,394	12,971	13,937
Total	50,886	50,319	49,834	49,414	39,977	41,541	47,592
Nonmetals							
Surface	7,743	7,180	7,264	7,166	6,660	6,877	6,510
Underground	2,210	1,870	2,180	2,245	2,275	2,370	2,550
Mill	7,814	6,347	7,003	7,401	7,198	7,386	7,585
Total	17,767	15,397	16,447	16,812	16,133	16,633	16,645
Fuels							
Surface	8,443	8,789	9,705	10,510	11,045	11,535	12,929
Underground	2,832	2,586	3,003	3,169	3,151	2,871	2,900
Total	11,275	11,375	12,708	13,679	14,196	14,406	15,829
Total mining industry							
Surface	32,415	32,200	33,112	33,791	30,606	31,076	33,786
Underground	26,087	25,010	25,226	24,896	21,108	21,147	24,758
Mill	21,426	19,881	20,651	21,218	18,592	20,357	21,522
Total	79,928	77,091	78,989	79,905	70,306	72,580	80,066

TABLE 38. CANADA, MINE AND MILL WORKERS BY SEX, 1980

	Mine Workers				Mill Workers		Total	
	Underground		Surface					
	Male	Female	Male	Female	Male	Female	Male	Female
Metallic Minerals								
Gold-quartz	2,910	-	1,002	34	809	26	4,721	60
Copper-gold-silver	4,139	6	3,932	106	3,914	202	11,985	314
Silver-lead-zinc	2,213	6	1,565	78	1,344	69	5,122	153
Nickel-copper	7,225	4	2,920	45	938	16	11,083	65
Iron Ore	294	3	2,720	64	4,979	204	7,993	271
Uranium	2,271	6	1,269	31	775	111	4,315	148
Miscellaneous metal mines	231	-	555	26	505	45	1,291	71
Total	19,283	25	13,963	384	13,264	673	46,510	1,082
Industrial minerals								
Asbestos	530	-	2,051	12	3,788	92	6,369	104
Gypsum	121	-	422	3	53	-	596	3
Peat	-	-	590	13	473	4	1,063	17
Potash	1,485	13	72	2	1,497	25	3,054	40
Salt	353	-	151	-	403	24	907	24
Sand and gravel	-	-	1,217	12	100	2	1,317	14
Stone	6	-	1,757	8	299	7	2,062	15
Miscellaneous nonmetals	42	-	196	4	803	15	1,041	19
Total	2,537	13	6,456	54	7,416	169	16,409	236
Mining Total	21,820	38	20,419	438	20,680	842	62,919	1,318

TABLE 39. CANADA, LABOUR COSTS IN RELATION TO TONNES MINED, METAL MINES, 1978-80

Type of metal mine	Number of wage earners	Total wages ($000)	Average annual wage ($)	Tonnage of ore mined (kilotonnes)	Average annual tonnes mined per wage earner	Wage cost per tonne mined ($)
1978						
Gold-quartz	4,094	65,788	16,069	5 914	1 445	11.12
Copper-gold-silver	10,433	195,806	18,768	98 307	9 423	1.99
Nickel-copper	7,924	137,570	17,361	11 306	1 427	12.17
Silver-lead-zinc	5,129	95,649	18,649	15 859	3 092	6.03
Iron ore	7,532	175,695	23,326	96 323	12 789	1.82
Uranium	3,550	61,969	17,456	6 126	1 726	10.11
Miscellaneous metals	1,315	24,781	18,845	14 221	10 814	1.74
Total	39,977	757,258	18,942	248 056	6 205	3.05
1979						
Gold-quartz	4,155	75,979	18,286	5 478	1 318	13.87
Copper-gold-silver	10,976	231,527	21,040	99 254	9 043	2.33
Nickel-copper	7,159	137,967	19,272	10 183	1 422	13.55
Silver-lead-zinc	5,087	103,783	20,402	15 078	2 964	6.88
Iron ore	8,911	221,216	24,825	130 799	14 678	1.69
Uranium	4,320	87,902	20,348	6 141	1 422	14.31
Miscellaneous metals	933	21,009	22,518	7 822	8 384	2.50
Total	41,541	879,383	21,169	274 755	6 614	3.20
1980						
Gold-quartz	4,781	103,293	21,605	6 346	1 327	16.28
Copper-gold-silver	12,299	289,899	23,570	105 193	8 553	2.76
Nickel-copper	11,148	220,481	19,778	16 206	1 454	13.60
Silver-lead-zinc	5,275	122,248	23,175	16 219	3 075	7.54
Iron ore	8,264	216,280	26,171	123 107	14 897	1.76
Uranium	4,463	107,209	24,022	7 152	1 603	14.99
Miscellaneous metals	1,362	32,438	23,816	15 871	11 653	2.04
Total	47,592	1,091,848	22,942	290 095	6 095	3.76

TABLE 40. CANADA, MAN-HOURS PAID, PRODUCTION AND RELATED WORKERS, TONNES OF ORE MINED AND ROCK QUARRIED, METAL MINES AND NONMETALLIC MINERAL OPERATIONS, 1974-80

	Unit	1974	1975	1976	1977	1978	1979	1980
Metal mines[1]								
Ore mined	million tonnes	278.7	264.2	296.5	299.5	248.1	274.8	290.1
Man-hours paid[2]	million	104.0	102.4	100.6	101.2	84.9	85.1	97.5
Man-hours paid per tonne mined	number	0.37	0.39	0.34	0.34	0.34	0.31	0.34
Tonnes mined per man-hour paid	tonnes	2.68	2.58	2.95	2.96	2.92	3.23	2.98
Nonmetallic mineral operations[3]								
Ore mined and rock quarried	million tonnes	174.5	155.1	162.0	200.2	200.4	192.1[r]	185.0
Man-hours paid[2]	million	27.9	23.4	26.9	27.7	26.3	27.8	26.5
Man-hours paid per tonne mined	number	0.16	0.15	0.17	0.14	0.13	0.14	0.14
Tonnes mined per man-hour paid	tonnes	6.25	6.63	6.02	7.23	7.62	6.91[r]	6.98

[1] Excludes placer mining. [2] Man-hours paid for production and related workers only. [3] Includes asbestos, potash, gypsum and stone.
[r] Revised.

TABLE 41. CANADA, AVERAGE WEEKLY WAGES AND HOURS WORKED, HOURLY-RATED EMPLOYEES IN MINING, MANUFACTURING AND CONSTRUCTION INDUSTRIES, 1975-81

	1975	1976	1977	1978	1979[r]	1980	1981[P]
Mining							
Average hours per week	40.0	40.3	40.6	40.5	41.1	40.8	40.4
Average weekly wage ($)	260.74	298.44	329.45	354.51	396.58	440.61	494.62
Metals							
Average hours per week	39.4	39.6	39.8	39.4	40.4	40.1	40.2
Average weekly wage ($)	260.33	296.21	325.75	344.94	387.14	425.08	485.03
Mineral fuels							
Average hours per week	39.7	40.6	41.3	41.0	41.8	41.8	40.8
Average weekly wage ($)	264.98	309.24	333.51	367.34	414.96	465.05	511.40
Nonmetals							
Average hours per week	40.1	40.5	40.3	40.5	40.5	40.0	40.1
Average weekly wage ($)	230.84	273.56	301.92	326.23	330.47	357.03	402.32
Manufacturing							
Average hours per week	38.6	38.7	38.7	38.8	38.8	38.5	38.5
Average weekly wage ($)	195.12	222.79	246.63	265.06	287.82	314.80	352.08
Construction							
Average hours per week	39.0	38.9	38.7	39.0	39.4	39.0	38.9
Average weekly wage ($)	293.96	330.95	378.50	400.58	433.51	470.45	592.72

Note: Wages reflect seasonally unadjusted figures.
[P] Preliminary; [r] Revised.

TABLE 42. CANADA, AVERAGE WEEKLY WAGES OF HOURLY-RATED EMPLOYEES IN THE MINING INDUSTRY, IN CURRENT AND 1971 DOLLARS, 1975-81

	1975	1976	1977	1978	1979	1980	1981P
Current dollars							
All mining	260.74	298.44	329.45	354.51	396.58	440.61	494.62
Metals	260.33	296.21	325.75	344.94	387.14	425.08	485.03
Mineral fuels	264.98	309.24	333.51	367.34	414.96	465.05	511.40
Coal	243.01	274.00	303.53	323.49	362.20	430.16	485.03
Nonmetals except fuel	230.84	273.56	301.92	326.23	330.47	357.03	402.32
1971 dollars							
All mining	188.26	200.43	204.88	202.35	207.42	209.22	208.79
Metals	187.96	198.93	202.58	196.88	202.48	201.84	204.74
Mineral fuels	191.32	207.68	207.41	209.67	217.03	220.82	215.87
Coal	175.46	184.02	188.76	184.64	189.44	204.25	204.74
Industrial minerals	166.67	183.72	187.76	186.20	172.84	169.53	169.83

Note: Wages reflect seasonally unadjusted figures.
P Preliminary.

TABLE 43. CANADA, INDUSTRIAL FATALITIES PER THOUSAND WORKERS, BY INDUSTRY GROUPS 1979-81[1]

	Fatalities (number)			Number of Workers (000)			Rate per 1,000 workers[2]		
	1979	1980	1981P	1979	1980	1981P	1979	1980	1981P
Agriculture	14	7	15	142.0	156.0	151.0	0.10	0.05	0.10
Forestry	106	76	59	70.2	68.2	65.6	1.51	1.11	0.90
Fishing	15	22	19	12.0	15.0	13.8	1.25	1.47	1.38
Mining	141	168	113	151.0	170.2	178.1	0.93	0.99	0.63
Manufacturing	163	140	138	1 873.9	1 851.2	1 884.0	0.09	0.08	0.07
Construction	178	182	172	465.0	455.4	475.3	0.38	0.40	0.36
Transportation	212	220	183	819.6	842.8	849.7	0.26	0.26	0.22
Trade	66	73	60	1 515.8	1 555.6	1 628.6	0.04	0.05	0.04
Finance	5	8	8	502.4	517.1	533.0	0.01	0.02	0.02
Service	75	86	79	2 626.4	2 766.5	2 935.0	0.03	0.03	0.03
Public administration	63	44	61	625.0	635.6	628.3	0.10	0.07	0.10
Unknown	21	15	5	..	..	..	..	..	..
Total	1,059	1,041	912	8 833.3	9 033.6	9 342.4	0.12	0.12	0.10

Note: See footnotes, Table 44.
[1] Includes fatalities resulting from occupational chest diseases such as silicosis, lung cancer, etc. [2] The rates may be understated because only 80 per cent of workers in the Statistics Canada employment estimates are covered by workers' compensation.
P Preliminary; .. Not available.

TABLE 44. CANADA, INDUSTRIAL FATALITIES PER THOUSAND WORKERS, BY INDUSTRY GROUPS, 1975-81

	1975	1976	1977	1978	1979	1980	1981P
Agriculture	0.10	0.13	0.11	0.05	0.10	0.05	0.10
Forestry	1.25	1.14	0.92	1.28	1.51	1.11	0.90
Fishing[1]	3.25	3.60	2.37	1.44	1.25	1.47	1.38
Mining[2]	1.20	1.18	0.92	0.82	0.93	0.99	0.63
Manufacturing	0.13	0.11	0.10	0.10	0.09	0.08	0.07
Construction	0.48	0.42	0.37	0.38	0.38	0.40	0.36
Transportation[3]	0.28	0.28	0.22	0.25	0.26	0.26	0.22
Trade	0.05	0.04	0.05	0.04	0.04	0.05	0.04
Finance[4]	0.01	0.02	0.02	0.01	0.01	0.02	0.02
Service[5]	0.04	0.03	0.03	0.02	0.03	0.03	0.03
Public administration	0.14	0.09	0.08	0.12	0.10	0.07	0.10
Total	0.15	0.13	0.11	0.12	0.12	0.12	0.10

[1] Includes trapping, hunting. [2] Includes quarrying and oil wells. [3] Includes storage, communication, electric power and water utilities and highway maintenance. [4] Includes insurance and real estate. [5] Includes community, business and personal service.
P Preliminary.

TABLE 45. CANADA, INDUSTRIAL FATALITIES BY OCCUPATIONAL INJURIES AND ILLNESSES, 1979-81

	Occupational Injuries			Occupational Illnesses			Total		
	1979	1980	1981P	1979	1980	1981P	1979	1980	1981P
Agriculture	13	7	10	0	0	0	13	7	10
Forestry	89	66	49	0	1	0	89	67	49
Fishing	15	19	19	0	0	0	15	19	19
Mining	74	93	65	58	67	44	132	160	109
Manufacturing	108	88	80	28	30	36	136	118	116
Construction	139	146	148	7	10	5	146	156	153
Transportation	179	197	161	1	4	1	180	201	162
Trade	45	56	47	2	0	1	47	56	48
Finance	1	5	5	0	0	0	1	5	5
Service	50	68	60	4	1	3	54	69	63
Public administration	48	38	47	5	0	2	53	38	49
Unknown	5	12	1	1	2	0	6	14	1
Total	766	795	692	106	115	92	872	910	784

P Preliminary.

TABLE 46. CANADA, NUMBER OF STRIKES AND LOCKOUTS BY INDUSTRIES, 1979-1981

	1979			1980			1981		
	Strikes and lockouts	Workers involved	Duration in person-days	Strikes and lockouts	Workers involved	Duration in person-days	Strikes and lockouts	Workers involved	Duration in person-days
Agriculture	1	12	10	1	30	900	3	65	7,750
Forestry	11	2,632	110,940	8	3,588	337,220	14	3,292	349,400
Fishing and trapping	-	-	-	2	16,082	395,870	1	400	330
Mines	40	28,396	1,586,360	33	21,400	418,270	42	24,359	580,720
Manufacturing	511	149,656	3,129,460	404	86,247	3,137,370	423	152,207	4,638,290
Construction	48	10,839	88,290	69	57,940	1,107,060	44	5,780	43,280
Transportation and utilities	129	79,933	1,181,580	106	27,329	729,070	101	58,135	1,513,970
Trade	78	16,442	247,410	109	7,855	218,550	90	4,886	149,170
Finance, insurance and real estate	18	2,164	38,110	20	1,238	47,710	18	3,480	294,760
Service	139	64,855	760,600	218	136,193	1,883,280	221	57,248	577,400
Public administration	74	58,845	642,740	58	83,123	700,090	90	17,696	717,420
Various industries	1	48,730	48,730	-	-	-	1	6,000	6,000
All industries	1,050	462,504	7,834,230	1,028	441,025	8,975,390	1,048	338,548	8,878,490

- Nil.

TABLE 47. CANADA, NUMBER OF STRIKES AND LOCKOUTS BY MINING AND MINERAL MANUFACTURING, 1979-81

	1979			1980			1981		
	Strikes and lockouts	Workers involved	Duration in person-days	Strikes and lockouts	Workers involved	Duration in person-days	Strikes and lockouts	Workers involved	Duration in person-days
Mines	40	28,396	1,586,360	33	21,400	418,270	42	24,359	580,720
Metal	17	18,861	1,506,980	18	10,749	189,570	25	11,457	248,930
Mineral fuels	8	7,717	55,010	5	7,486	99,450	9	11,159	306,690
Nonmetals	10	1,645	22,980	7	3,039	121,750	5	1,674	16,130
Quarries	5	173	1,390	3	126	7,500	3	69	8,970
Mineral manufacturing	73	25,080	1,126,900	52	10,086	530,620	62	30,770	1,553,000
Primary metals	30	17,929	924,150	18	5,212	321,530	29	27,169	1,429,150
Nonmetallic mineral products	41	5,875	185,870	31	3,208	123,310	33	3,601	123,850
Petroleum and coal products	2	1,276	16,880	3	1,666	85,780	0	0	0

TABLE 48. CANADA, SOURCE OF ORES HOISTED OR REMOVED FROM SELECTED TYPES OF MINES; 1978-80

Mines	1978			1979			1980		
	Underground	Open Pit	Total	Underground	Open Pit	Total	Underground	Open Pit	Total
	(kilotonnes)								
Asbestos	1 903	26 885	28 788	2 151	29 371	31 522	1 997	26 106	28 103
Copper-gold-silver	14 108	84 199	98 307	14 620	84 634	99 254	16 180	89 013	105 193
Gold-quartz	5 350	564	5 914	5 144	334	5 478	5 193	1 153	6 346
Gypsum	728	7 665	8 393	754	7 556	8 310	1 062	6 549	7 611
Iron Ore	3 550	92 773	96 323	3 641	127 158	130 799	3 222	119 886	123 107
Nickel-copper	10 224	1 082	11 306	8 950	1 233	10 183	14 660	1 546	16 206
Silver-lead-zinc	8 853	7 006	15 859	8 692	6 386	15 078	9 822	6 397	16 219
Uranium	5 306	820	6 126	5 408	733	6 141	5 981	1 171	7 152
Miscellaneous metals	1 245	12 976	14 221	1 212	6 610	7 822	1 491	14 381	15 871
Total	51 267	233 970	285 237	50 572	264 015	314 587	59 608	266 201	325 809
Percentage	18.0	82.0	100.0	16.0	84.0	100.0	18.3	81.7	100.0

TABLE 49. CANADA, SOURCE OF MATERIAL HOISTED OR REMOVED FROM METAL MINES, 1980

	Underground		Open Pit		
	Ore	Waste	Ore	Waste	Overburden
			(kilotonnes)		
Gold-quartz	5 193	596	1 153	469	3 641
Copper-gold-silver	16 180	1 183	89 013	167 632	11 146
Nickel-copper	14 660	969	1 546	1 348	28
Silver-lead-zinc	9 822	702	6 397	23 181	1 524
Iron	3 222	119	119 886	62 121	21 947
Uranium	5 981	420	1 171	2 635	-
Miscellaneous metals	1 491	70	14 381	15 394	320
Total	56 549	4 059	233 547	440 881	38 606

- Nil.

TABLE 50. CANADA, ORE MINED AND ROCK QUARRIED IN THE MINING INDUSTRY, 1974-80

	1974	1975	1976	1977	1978	1979	1980
	(kilotonnes)						
Metals							
Gold-quartz	5 629	5 901	5 921	5 768	5 914	5 478	6 346
Copper-gold-silver	111 381	97 656	103 600	108 966	98 307	99 254	105 193
Silver-lead-zinc	14 295	16 169	14 309	16 730	15 859	15 078	16 219
Nickel-copper	25 302	23 265	21 462	20 395	11 306	10 183	16 206
Iron	107 105	101 482	133 073	127 057	96 323	130 799	123 107
Uranium	2 633	3 449	3 663	5 014	6 126	6 141	7 152
Miscellaneous metals	12 376	16 296	14 499	15 599	14 221	7 822	15 871
Total	278 721	264 218	296 527	299 528	248 056	274 755	290 095
Nonmetals							
Asbestos	34 524	22 186	31 055	31 912	28 788	31 522	28 103
Potash	21 945	21 713	20 277	24 813	24 856	25 511	26 988
Gypsum	6 917	5 578	5 978	7 216	8 393	8 310	7 611
Rock salt	4 291	3 627	5 080	4 974	5 050	5 639	5 321
Total	67 677	53 104	62 390	68 915	67 087	70 982	68 023
Structural materials							
Stone, all kinds quarried[1]	92 833	88 921	87 876	120 163	122 144	109 719	103 366
Stone used to make cement	14 948	13 654	13 350	12 614	13 051	13 982[r]	14 138
Stone used to make lime	3 391	2 980	3 442	3 534	3 178	3 028	4 751
Total	111 172	105 555	104 668	136 310	138 373	126 729[r]	122 255
Total ore mined and rock quarried	457 570	422 877	463 585	504 753	453 516	472 466[r]	480 373

[1] Excludes stone used to manufacture cement and lime.
[r] Revised.

TABLE 51. CANADA, EXPLORATION AND CAPITAL EXPENDITURES IN THE MINING INDUSTRY[1], BY PROVINCES AND TERRITORIES, 1979-81

		Capital						Repair						
		Construction				Machinery and equipment	Total capital	Construction	Machinery and equipment	Total repair	Total capital and repair	Outside or general exploration	Land and mining rights	Total all expenditures
		On-property exploration	On-property development	Structures	Total									
		($ million)												
Atlantic provinces	1979	2.2	47.0	27.7	76.9	51.4	128.3	10.4	173.2	183.6	311.9	21.1	0.6	333.6
	1980	2.7	60.3	22.4	85.4	60.0	145.4	14.8	168.2	183.0	328.4	35.5	0.2	364.1
	1981P	6.3	63.5	80.7	150.4	115.4	265.8	11.0	185.2	196.2	462.1	50.8	1.5	514.4
Quebec	1979	7.5	109.6	40.0	157.1	72.9	230.0	25.2	200.1	225.3	455.3	39.5	1.3	496.1
	1980	15.6	151.6	81.3	248.5	98.8	347.3	45.4	281.8	327.2	674.5	58.5	9.2	742.2
	1981P	28.0	156.1	106.5	290.6	135.9	436.5	49.3	261.7	311.0	737.5	81.7	2.1	821.3
Ontario	1979	6.4	150.7	68.2	225.3	127.2	352.5	23.2	221.6	244.8	597.3	18.4	0.9	616.6
	1980	12.1	179.3	124.5	315.9	120.2	436.1	66.2	235.9	302.1	738.0	58.5	3.4	799.9
	1981P	17.9	206.2	148.8	372.9	177.2	550.1	70.6	281.7	352.3	902.4	79.5	6.4	988.3
Manitoba	1979	(2)	(2)	(2)	46.8	15.9	62.7	(2)	34.2	(2)	96.9	11.8	-	108.7
	1980	(2)	(2)	(2)	39.2	11.3	50.5	6.6	44.2	50.8	101.3	21.2	0.3	122.8
	1981P	8.3	27.3	13.5	49.1	34.0	83.1	5.1	44.2	49.3	132.4	20.6	0.3	153.3
Saskatchewan	1979	4.9	29.3	40.0	74.2	66.9	141.1	5.6	76.8	82.4	223.5	52.6	8.1	284.2
	1980	7.0	40.4	62.1	109.5	87.1	196.6	9.1	90.3	99.4	296.0	56.4	4.7	357.1
	1981P	20.2	39.0	101.6	160.8	175.7	336.5	11.5	120.5	132.0	468.5	45.4	8.1	522.0
Alberta	1979	(2)	(2)	(2)	19.3	40.7	60.0	(2)	38.7	(2)	98.7	8.5	1.2	108.4
	1980	(2)	(2)	(2)	34.5	41.8	76.3	1.2	57.5	58.7	135.0	14.2	(2)	(2)
	1981P	2.6	20.1	52.6	75.3	52.2	127.5	0.9	59.0	59.9	187.4	23.9	(2)	(2)
British Columbia	1979	17.8	95.1	115.6	228.5	85.8	314.3	10.7	178.0	188.7	503.0	48.3	1.5	552.8
	1980	31.1	154.1	302.6	487.8	233.3	721.1	21.8	232.5	254.3	975.4	91.0	3.7	1,070.1
	1981P	34.9	139.7	490.3	664.9	197.2	862.1	24.1	338.9	363.0	1,225.1	111.7	1.5	1,338.3
Yukon and Northwest Territories	1979	5.6	11.3	10.2	27.1	23.4	50.5	5.7	46.0	51.7	102.2	48.7	18.6	169.5
	1980	8.6	26.9	99.2	134.7	82.3	217.0	4.7	50.4	55.1	272.1	68.3	(2)	(2)
	1981P	16.3	43.4	155.3	215.0	106.5	321.5	5.4	57.4	62.8	384.3	78.2	(2)	(2)
Canada	1979	49.2	476.3	329.7	855.2	484.2	1,339.4	84.8	964.6	1,049.4	2,388.8	248.9	32.2	2,669.9
	1980	85.4	646.8	723.3	1,455.5	734.8	2,189.3	169.8	1,160.8	1,330.6	3,520.9	403.6	43.6	3,968.1
	1981P	134.5	695.3	1,149.3	1,979.1	994.1	2,973.2	177.9	1,348.6	1,526.5	4,499.7	491.8	29.8	5,021.3

[1] Excludes the crude oil and natural gas industries and the smelting and refining industries; (2) Confidential, included in total.
P Preliminary; - Nil.

TABLE 52. CANADA, EXPLORATION AND CAPITAL EXPENDITURES[1] IN THE MINING INDUSTRY, BY TYPE OF MINING, 1979-1981

		Capital						Repair						
		Construction				Machinery and equipment	Total capital	Construction	Machinery and equipment	Total repair	Total capital and repair	Outside or general exploration	Land and mining rights	Total, all expenditures
		On-property exploration	On-property development	Structures	Total									
		($ million)												
Metal Mining														
Gold	1979	4.1	29.4	6.7	40.2	16.8	57.0	3.2	23.4	26.6	83.6	5.6	-	89.2
	1980	22.6	63.4	36.7	122.7	38.2	160.9	6.8	27.9	34.7	195.6	20.0	(2)	(2)
	1981P	21.7	111.8	179.7	313.2	96.3	409.5	13.9	44.7	58.6	468.1	40.1	2.7	510.9
Copper-gold-silver	1979	10.2	78.4	76.5	165.1	84.5	249.6	17.1	165.0	182.1	431.7	8.5	(2)	(2)
	1980	24.1	93.3	187.6	305.0	185.9	490.9	24.2	211.0	235.2	726.1	8.4	(2)	(2)
	1981P	28.2	91.2	157.1	276.5	161.6	438.1	29.7	292.2	321.9	760.0	13.5	0.6	774.7
Silver-lead-zinc	1979	8.1	20.3	25.8	54.2	33.4	87.6	5.2	43.8	49.0	136.6	6.2	18.5	161.3
	1980	9.4	35.4	97.1	141.9	86.1	228.0	7.0	61.4	68.4	296.4	10.7	(2)	307.1
	1981P	21.5	55.2	95.4	172.1	104.7	276.8	6.8	75.4	82.2	359.0	15.4	0.6	375.0
Iron	1979	(2)	81.4	15.4	96.8	40.3	137.1	27.5	268.4	295.9	433.0	(2)	-	(2)
	1980	(2)	(2)	26.3	123.9	44.1	167.0	39.2	298.0	337.2	505.2	(2)	-	(2)
	1981P	(2)	(2)	19.9	127.9	60.4	187.4	35.6	302.8	338.4	526.7	(2)	(2)	(2)
Other metal mining	1979	11.5	140.5	96.1	248.1	104.7	352.8	17.2	131.1	148.3	501.1	(2)	(2)	(2)
	1980	14.7	178.8	214.3	407.8	109.3	517.1	60.1	169.1	229.2	746.3	(2)	1.4	(2)
	1981P	37.3	198.6	204.0	439.9	149.1	589.0	65.8	184.8	250.6	839.6	(2)	(2)	(2)
Total metal mining	1979	(2)	383.9	220.5	604.4	279.7	884.1	70.2	631.7	701.9	1,586.0	29.8	19.7	1,635.5
	1980	(2)	(2)	562.0	1,101.3	463.6	1,564.9	137.3	767.4	898.7	2,469.6	54.4	4.4	2,528.4
	1981P	(2)	(2)	656.1	1,329.6	572.1	1,901.7	151.8	899.9	1,051.7	2,953.4	97.0	24.9	3,075.3
Nonmetal mining														
Asbestos	1979	0.5	49.7	19.0	69.2	29.7	98.9	5.6	93.8	99.4	198.3	0.4	(2)	(2)
	1980	0.7	56.4	8.0	65.1	23.1	88.2	7.4	106.0	113.4	201.6	(2)	(2)	(2)
	1981P	(2)	(2)	5.5	53.7	15.3	69.0	4.0	79.5	83.5	152.5	(2)	-	(2)
Other nonmetal mining	1979	12.4	78.0	89.2	179.6	172.9	352.5	9.0	238.7	247.7	600.2	10.2	(2)	(2)
	1980	9.6	120.8	150.9	281.3	244.5	525.8	25.1	287.1	312.2	838.0	(2)	(2)	(2)
	1981P	21.3	85.4	487.4	594.1	402.4	996.5	22.0	368.3	388.3	1,386.8	(2)	12.6	(2)
Total nonmetal mining	1979	12.9	127.7	108.2	248.8	202.6	451.4	14.6	232.5	247.1	798.5	10.6	10.0	819.1
	1980	10.3	177.2	158.9	346.4	267.6	614.0	32.5	393.1	425.6	1,039.6	18.4	9.4	1,067.4
	1981P	(2)	(2)	492.9	647.8	417.7	1,065.5	26.0	447.8	473.8	1,539.3	38.5	12.6	1,590.4
Metal and nonmetal exploration	1979	(2)	1.0	1.0	2.0	1.9	3.9	-	0.4	0.4	4.3	201.9	2.5	208.7
	1980	(2)	(2)	2.4	7.8	3.6	11.4	-	0.3	0.3	11.7	330.8	9.3	351.8
	1981P	(2)	(2)	0.3	1.7	4.3	6.0	0.1	0.9	1.0	7.0	356.3	12.8	376.1
Total mining	1979	49.2	476.3	329.7	855.2	484.2	1,339.4	84.8	964.6	1,049.4	2,388.8	248.9	32.2	2,669.9
	1980	85.4	646.8	723.3	1,455.5	734.8	2,185.3	169.8	1,160.8	1,330.6	3,520.9	403.6	43.6	3,968.1
	1981P	134.5	695.3	1,149.3	1,979.1	994.1	2,973.2	177.9	1,348.6	1,526.5	4,499.7	491.8	29.8	5,021.3

1 Excludes expenditures in the petroleum and natural gas industries. (2) Confidential, included in total.
P Preliminary; - Nil.

TABLE 53. CANADA, DIAMOND DRILLING IN THE MINING INDUSTRY, BY MINING COMPANIES WITH OWN EQUIPMENT AND BY DRILLING CONTRACTORS, 1978-80

		1978			1979			1980		
		Exploration	Other	Total	Exploration	Other	Total	Exploration	Other	Total
			(metres)							
Metal mining										
Gold-quartz	Own equipment	12 410	2 544	14 954	13 455	-	13 455	27 775	1 000	28 775
	Contractors	154 703	39 678	194 381	170 711	14 789	185 500	154 812	4 048	158 860
	Total	167 113	42 222	209 335	184 166	14 789	198 955	182 587	5 048	187 635
Copper-gold-silver	Own equipment	97 698	292	97 990	141 220	-	141 220	101 366	-	101 366
	Contractors	161 075	18 000	179 075	133 445	10 713	144 158	245 218	40 605	285 823
	Total	258 773	18 292	277 065	274 665	10 713	285 378	346 584	40 605	387 189
Nickel-copper	Own equipment	63 910	-	63 910	109 799	-	109 799	138 103	-	138 103
	Contractors	5 747	-	5 747	42 385	-	42 385	41 318	-	41 318
	Total	69 657	-	69 657	152 184	-	152 184	179 421	-	179 421
Silver-lead-zinc and silver-cobalt	Own equipment	45 729	348 508	394 237	18 609	4 090	22 699	42 161	19 545	61 706
	Contractors	96 252	-	96 252	106 569	1 764	108 333	198 171	-	198 171
	Total	141 981	348 508	490 489	125 178	5 854	131 032	240 332	19 545	259 877
Iron mines	Own equipment	-	-	-	-	-	-	38 424	-	38 424
	Contractors	18 734	-	18 734	28 266	-	28 266	30 007	27 474	57 481
	Total	18 734	-	18 734	28 266	-	28 266	68 431	27 474	95 905
Uranium	Own equipment	17 503	-	17 503	23 509	-	23 509	-	-	-
	Contractors	40 174	914	41 088	45 255	3 269	48 524	10 884	-	10 884
	Total	57 677	914	58 591	68 764	3 269	72 033	10 884	-	10 884
Miscellaneous metal mining	Own equipment	-	-	-	4 629	-	4 629	-	-	-
	Contractors	57 872	-	57 872	45 090	-	45 090	67 156	-	67 156
	Total	57 872	-	57 872	49 719	-	49 719	67 156	-	67 156
Total metal mining	Own equipment	237 250	351 344	588 594	311 221	4 090	315 311	347 829	20 545	368 374
	Contractors	534 557	58 592	593 149	571 721	30 535	602 256	747 566	72 127	819 093
	Total	771 807	409 936	1 181 743	882 942	34 625	917 567	1 095 395	92 672	1 188 067

(continued on following page)

TABLE 53 (cont'd)

		1978			1979			1980		
		Exploration	Other	Total	Exploration	Other	Total	Exploration	Other	Total
			(metres)							
Nonmetal mining										
Asbestos	Own equipment	-	-	-	-	-	-	-	-	-
	Contractors	48 087	-	48 087	20 238	-	20 238	28 790	-	28 790
	Total	48 087	-	48 087	20 238	-	20 238	28 790	-	28 790
Gypsum	Own equipment	-	-	-	1 779	-	1 314	1 314	-	1 314
	Contractors	5 660	-	5 660	4 177	-	4 177	4 463	-	4 463
	Total	5 660	-	5 660	5 956	-	5 956	5 777	-	5 777
Salt	Own equipment	1 722	-	1 722	2 632	-	2 632	-	-	-
	Contractors	-	-	-	-	-	-	-	-	-
	Total	1 722	-	1 722	2 632	-	2 632	-	-	-
Miscellaneous nonmetal mining	Own equipment	2 480	-	2 480	1 958	-	1 958	2 844	-	2 844
	Contractors	294	-	294	671	-	671	798	-	798
	Total	2 774	-	2 774	2 629	-	2 629	3 642	-	3 642
Total nonmetal mining	Own equipment	4 202	-	4 202	6 369	-	6 369	4 158	-	4 158
	Contractors	54 041	-	54 041	25 086	-	25 086	34 051	-	34 051
	Total	58 243	-	58 243	31 455	-	31 455	38 209	-	38 209
Total mining industry	Own equipment	241 452	351 344	592 796	317 590	4 090	321 680	351 987	20 545	372 532
	Contractors	588 598	58 592	647 190	596 807	30 535	627 342	781 617	72 127	853 744
	Total	830 050	409 936	1 239 986	914 397	34 625	949 022	1 133 604	92 672	1 226 276

- Nil.

TABLE 54. CANADA, ORE MINED AND ROCK QUARRIED IN THE MINING INDUSTRY, 1951-80

	Metals	Nonmetal[1]	Total
		(million tonnes)	
1951	44.2	39.7	83.9
1952	47.4	40.0	87.4
1953	49.3	42.8	92.1
1954	53.5	55.7	109.2
1955	62.7	57.6	120.3
1956	70.2	66.2	136.4
1957	76.4	74.5	150.9
1958	71.4	71.2	142.6
1959	89.9	82.2	172.1
1960	92.1	88.7	180.8
1961	90.1	96.7	186.8
1962	103.6	103.8	207.4
1963	112.7	120.4	233.1
1964	128.0	134.1	262.1
1965	151.0	146.5	297.5
1966	147.6	171.8	319.4
1967	169.1	177.5	346.6
1968	186.9	172.7	359.6
1969	172.0	178.8	350.8
1970	213.0	179.1	392.1
1971	211.5	185.8	397.3
1972	206.0	189.7	395.7
1973	274.8	162.6	437.3
1974	278.7	178.8	457.6
1975	264.2	158.7	422.9
1976	296.5	167.1	463.6
1977	299.5	205.2	504.8
1978	248.1	205.5	453.5
1979	274.8	197.7[r]	472.5[r]
1980	290.1	190.3	480.4

[1] Includes nonmetallic mineral mining and all stone quarried, including stone used to make cement and lime. From 1973 onwards, coverage is the same as in Table 50.
[r] Revised.

TABLE 55. CANADA, TOTAL DIAMOND DRILLING, METAL DEPOSITS, 1951-80

	Gold-quartz deposits	Copper-gold-silver and nickel-copper deposits	Silver-lead-zinc and silver-cobalt deposits	Other metal bearing deposits[1]	Total metal deposits
			(metres)		
1951	891 648	1 264 630	460 296	108 224	2 724 798
1952	808 245	1 187 024	456 146	56 032	2 507 447
1953	675 598	976 514	367 864	65 279	2 085 255
1954	737 266	826 288	271 873	199 097	2 034 524
1955	717 674	875 942	341 857	537 612	2 473 085
1956	682 600	1 490 298	399 679	383 431	2 956 008
1957	706 273	1 098 490	323 704	287 364	2 415 831
1958	546 861	923 026	297 792	286 970	2 054 649
1959	558 160	1 110 664	282 088	383 471	2 334 383
1960	628 016	1 267 792	226 027	315 067	2 436 902
1961	503 741	1 128 091	255 101	221 079	2 199 452
1962	902 288	1 025 048	350 180	358 679	2 636 195
1963	529 958	977 257	288 204	148 703	1 944 122
1964	458 933	709 588	401 099	104 738	1 674 358
1965	440 020	779 536	331 294	275 917	1 826 727
1966	442 447	729 148	292 223	164 253	1 628 071
1967	391 347	947 955	230 182	120 350	1 689 834
1968	375 263	935 716	198 038	56 780	1 565 797
1969	274 410	923 452	197 670	109 592	1 505 124
1970	214 717	1 132 915	375 019	99 373	1 822 024
1971	193 291	1 089 103	308 798	83 851	1 675 043
1972	229 771	967 640	240 195	50 225	1 487 831
1973	243 708	713 134	185 946	57 730	1 200 518
1974	250 248	798 564	197 322	83 484	1 329 618
1975	216 158	532 991	184 203	97 971	1 031 323
1976	156 030	507 620	166 366	97 735	927 751
1977	175 643	515 780	213 279	124 329	1 029 031
1978	209 335	227 065	490 489	135 197	1 181 743
1979	198 955	437 562	131 032	150 018	917 567
1980	187 635	566 610	259 877	173 945	1 188 067

[1] Includes iron, titanium, uranium, molybdenum and other metal deposits.

TABLE 56. CANADA, EXPLORATION DIAMOND DRILLING, METAL DEPOSITS, 1951-80

	Mining companies with own personnel and equipment	Diamond drill contractors	Total
	(metres)		
1951	368 015	1 102 260	1 470 275
1952	416 467	951 104	1 367 571
1953	318 970	872 668	1 191 638
1954	295 613	1 109 844	1 405 457
1955	464 118	1 546 025	2 010 143
1956	474 562	1 644 735	2 119 297
1957	358 300	1 233 323	1 591 623
1958	237 133	1 200 625	1 437 758
1959	239 786	1 367 061	1 606 847
1960	268 381	1 409 416	1 677 797
1961	302 696	1 337 173	1 639 869
1962	167 214	1 748 023	1 915 237
1963	361 180	1 169 292	1 530 472
1964	143 013	1 072 985	1 215 998
1965	209 002	1 176 996	1 385 998
1966	163 379	1 044 860	1 208 239
1967	93 164	1 123 137	1 216 301
1968	159 341	990 690	1 150 031
1969	135 311	1 072 328	1 207 639
1970	62 147	1 228 061	1 290 208
1971	86 838	1 053 330	1 140 168
1972	251 651	839 753	1 091 404
1973	321 333	742 899	1 064 232
1974	357 823	892 557	1 250 380
1975	346 770	618 161	964 931
1976	335 919	532 036	867 955
1977	327 241	638 327	965 568
1978	237 250	534 557	771 807
1979	311 221	571 721	882 942
1980	347 829	747 566	1 095 395

TABLE 57. CANADA, DIAMOND DRILLING, OTHER THAN FOR EXPLORATION, METAL DEPOSITS, 1951-1980

	Mining companies with own personnel and equipment	Diamond drill contractors	Total
	(metres)		
1951	..	..	1 254 523
1952	..	..	1 139 876
1953	..	..	893 617
1954	..	..	629 067
1955	410 925	52 017	462 942
1956	790 522	46 188	836 710
1957	524 724	156 060	680 784
1958	444 376	172 516	616 892
1959	488 783	238 753	727 536
1960	450 246	308 860	759 105
1961	384 432	175 149	559 581
1962	528 700	192 259	720 959
1963	388 228	25 422	413 650
1964	385 765	72 594	458 359
1965	393 947	46 822	440 769
1966	227 968	191 863	419 831
1967	186 463	287 071	473 534
1968	122 851	292 914	415 765
1969	87 552	209 933	297 485
1970	290 363	241 453	531 816
1971	295 966	238 910	534 876
1972	304 523	91 903	396 426
1973	77 162	59 124	136 286
1974	54 353	24 885	79 238
1975	31 917	34 475	66 392
1976	31 413	28 383	59 796
1977	24 303	39 160	63 463
1978	351 344	58 592	409 936
1979	4 090	30 535	34 625
1980	20 545	72 127	92 672

The total footage drilled shown in Tables 56 and 57 equals the total footage drilled reported in Table 55. Nonproducing companies excluded since 1964.

.. Not available.

TABLE 58. CANADA, CRUDE MINERALS TRANSPORTED BY CANADIAN RAILWAYS, 1978-80

	1978	1979	1980
		(000 tonnes)	
Metallic minerals			
Alumina and bauxite	2 682	1 973	2 752
Copper ores and concentrates	1 963	1 696	1 546
Iron ores and concentrates	42 595	62 343	54 167
Iron pyrite	10	14	46
Lead ores and concentrates	695	941	515
Lead-zinc ores and concentrates	41	2	353
Manganese ores	8	10	7
Nickel-copper ores and concentrates	3 479	2 626	4 983
Nickel ores and concentrates	571	145	628
Tungsten ores and concentrates	2	2	2
Zinc ores an concentrates	1 882	1 704	1 442
Metallic ores and concentrates, nes	82	58	32
Total metallic minerals	54 010	71 514	66 473
Nonmetallic minerals			
Abrasives, natural	57	90	70
Asbestos	699	594	400
Barite	61	87	133
Clay	705	682	621
Gravel	139	145	13
Gypsum	4 876	4 905	4 652
Limestone, agricultural	68	74	72
Limestone, industrial	339	400	331
Limestone, nes	3 581	3 725	3 801
Nepheline syenite	397	406	340
Phosphate rock	2 294	2 634	2 912
Potash (KCl)	9 690	10 560	10 652
Refractory materials, nes	10	3	4
Salt, rock	818	906	1 015
Salt, nes	141	147	120
Sand, industrial	1 262	1 182	1 105
Sand, nes	25	20	13
Silica	23	24	33
Sodium carbonate	629	566	581
Sodium sulphate	459	540	547
Stone, building, rough	10	13	62
Stone, nes	400	420	236
Sulphur, liquid	1 384	1 517	1 750
Sulphur, nes	4 009	4 571	5 728
Nonmetallic minerals, nes	176	175	178
Total nonmetallic minerals	32 252	34 386	35 369
Mineral fuels			
Coal, anthracite	185	160	125
Coal, bituminous	20 331	20 450	22 177
Coal, lignite	603	329	486
Coal, nes	7	11	18
Natural gas and other crude bituminous substances	15	20	4
Oil, crude	291	293	172
Total mineral fuels	21 432	21 263	22 982
Total crude minerals	107 694	127 162	124 415
Total revenue freight moved by Canadian railways	238 824	257 874	254 447
Per cent crude minerals of total revenue freight	45.1	49.3	49.1

nes Not elsewhere specified.

TABLE 59. CANADA, CRUDE MINERALS TRANSPORTED BY CANADIAN RAILWAYS, 1951-80

	Total Revenue Freight	Total Crude Minerals	Crude Minerals as % of Revenue Freight		Total Revenue Freight	Total Crude Minerals	Crude Mineral as % of Revenue Freight
		(million tonnes)				(million tonnes)	
1951	146.3	47.6	32.5	1966	194.5	80.6	41.5
1952	147.1	45.9	31.2	1967	190.0	81.2	42.7
1953	141.7	44.7	31.5	1968	195.4	86.7	44.4
1954	129.8	45.0	34.6	1969	189.0	81.9	43.4
1955	152.2	61.2	40.2	1970	211.6	97.5	46.1
1956	172.0	68.7	39.9	1971	214.5	95.6	44.6
1957	157.9	64.2	40.6	1972	215.8	89.4	41.4
1958	139.2	52.4	37.6	1973	241.2	113.1	46.9
1959	150.6	62.8	41.7	1974	246.3	115.3	46.8
1960	142.8	57.1	39.9	1975	226.0	110.6	49.0
1961	138.9	54.1	38.9	1976	238.5	116.6	48.9
1962	146.0	60.3	41.3	1977	247.2	121.1	49.0
1963	154.6	62.9	40.7	1978	238.8	107.7	45.1
1964	180.0	74.6	41.5	1979	257.8	127.2	49.3
1965	186.2	80.9	43.5	1980	254.4	124.9	49.1

TABLE 60. CANADA, FABRICATED MINERAL PRODUCTS TRANSPORTED BY CANADIAN RAILWAYS, 1978-80

	1978	1979	1980
		(000 tonnes)	
Metallic mineral products			
Ferrous mineral products			
Ferroalloys	129	100	75
Pig iron	87	70	80
Ingots, blooms, billets, slabs of iron and steel	338	577	425
Other primary iron and steel	36	133	64
Castings and forgings, iron and steel	253	207	198
Bars and rods, steel	837	905	728
Plates, steel	442	566	553
Sheet and strip, steel	1 137	1 164	992
Structural shapes and sheet piling, iron and steel	421	469	445
Rails and railway track material	91	92	101
Pipes and tubes, iron and steel	461	550	546
Wire, iron or steel	49	46	39
Iron and steel scrap	1 806	2 018	2 087
Slag, dross, etc.	97	107	128
Total ferrous mineral products	6 184	7 004	6 461
Nonferrous mineral products			
Aluminum paste, powder, pigs, ingots, shot	212	81	128
Aluminum and aluminum alloy fabricated material, nes	250	278	230
Copper matte and precipitates	1	3	3
Copper and alloys, in primary form	396	374	389
Copper and alloys, nes	60	66	58
Lead and alloys	156	143	128
Nickel and nickel-copper matte	92	85	96
Nickel and alloys	28	28	30
Tin and alloys	1	-	-
Zinc and alloys	444	417	447
Other nonferrous base metals and alloys	28	22	29
Nonferrous metal scrap	116	114	103
Total nonferrous mineral products	1 784	1 611	1 641
Total metallic mineral products	7 968	8 615	8 102
Nonmetallic mineral products			
Natural stone basic products, chiefly structural	221	226	227
Bricks and tiles, clay	52	50	45
Fire brick and similar shapes	107	134	111
Dolomite and magnesite, calcined	72	81	85
Refractories, nes	30	32	36
Glass basic products	108	105	102
Asbestos and asbestos-cement basic products	27	27	33
Portland cement, standard	2 006	1 882	1 763
Concrete pipe	33	35	20
Cement and concrete basic products, nes	405	551	324
Plaster	18	19	21
Gypsum wallboard and sheathing	68	36	22
Gypsum basic products, nes	7	4	3
Lime, hydrated and quick	454	488	303
Nonmetallic mineral basic products, nes	817	638	458
Fertilizers and fertilizer materials, nes	2 139	2 183	2 092
Total nonmetallic mineral products	6 564	6 491	5 645

(continued on following page)

TABLE 60. (cont'd)

	1978	1979	1980
		(000 tonnes)	
Mineral fuel products			
Gasoline	1 720	1 601	1 455
Aviation turbine fuel	67	66	54
Diesel fuel	3 053	3 009	2 898
Kerosene	6	8	1
Fuel oil, nes	1 108	1 115	1 000
Lubricating oils and greases	412	404	389
Petroleum coke	656	613	626
Coke, nes	951	852	708
Refined and manufactured gases, fuel type	2 606	2 818	2 737
Asphalts and road oils	269	274	187
Bituminous pressed or molded fabricated material	2	1	1
Other petroleum and coal products	821	697	747
Total mineral fuel products	11 671	11 458	10 803
Total fabricated mineral products	26 203	26 564	24 550
Total revenue freight moved by Canadian railways	238 824	257 874	254 447
Fabricated mineral products as a percentage of total revenue freight	11.0	10.3	9.6

nes Not elsewhere specified; - Nil.

TABLE 61. CANADA, CRUDE AND FABRICATED MINERALS TRANSPORTED THROUGH THE ST. LAWRENCE SEAWAY, 1979-81

	Montreal-Lake Ontario Section			Welland Canal Section		
	1979	1980	1981	1979	1980	1981
	(tonnes)					
Crude minerals						
Coal	455 325	204 715	1 519 188	7 067 442	6 616 010	5 935 727
Iron ore	13 441 896	9 993 769	11 727 044	13 714 946	10 358 099	12 468 808
Aluminum ores and concentrates	161 999	112 581	149 932	161 999	112 581	144 525
Clay and bentonite	237 380	250 526	180 280	237 380	250 526	180 280
Gravel and sand	28 090	34 000	36 651	284 152	195 676	203 970
Petroleum, crude	11 254	-	-	11 254	3 515	-
Stone, ground or crushed	335 378	163 545	23 036	1 379 422	1 046 175	952 603
Stone, rough	3 796	167	122	2 114	167	122
Salt	756 422	709 809	1 029 608	1 354 097	1 286 050	1 599 337
Phosphate rock	75 225	38 036	27 432	27 243	75	-
Sulphur	138 700	142 592	25 615	138 700	142 592	25 613
Other crude minerals	762 041	598 101	706 831	471 808	475 227	620 819
Total crude minerals	16 407 506	12 247 841	15 452 739	24 850 557	20 486 693	22 131 804
Fabricated mineral products						
Coke	2 103 300	1 271 222	773 992	2 270 269	1 301 705	880 911
Gasoline	171 284	202 471	112 348	210 704	157 557	136 566
Fuel oil	2 110 957	1 418 321	1 667 865	1 519 327	1 510 057	1 652 474
Lubricating oils and greases	67 394	83 667	64 677	60 393	83 605	51 026
Other petroleum products	139 244	139 139	151 924	98 147	83 453	111 501
Tar, pitch and creosote	27 352	46 573	39 613	32 111	26 822	37 482
Pig iron	120 302	183 667	183 752	111 350	174 772	173 884
Iron and steel: bars, rods, slabs	206 007	159 477	314 656	196 935	107 989	299 479
Iron and steel: nails, wire	23 907	7 284	7 364	22 799	6 657	6 949
Iron and steel: manufactured	2 589 384	1 724 459	2 313 521	2 400 906	1 072 857	1 861 767
Scrap iron and steel	524 197	689 676	79 254	494 846	611 508	57 564
Cement	20 817	82 864	2 512	522 117	268 433	259 002
Total fabricated minerals	8 104 145	6 008 820	5 711 478	7 939 904	5 405 415	5 528 605
Total crude and fabricated minerals	24 511 651	18 256 661	21 137 217	32 790 461	25 892 108	27 660 409
Total all products	50 187 359	42 142 459	45 875 658	60 023 466	54 073 636	53 388 616
Crude and fabricated minerals as a per cent of total	48.8	43.3	46.1	54.6	47.9	51.8

- Nil.

TABLE 62. CANADA, CRUDE MINERALS LOADED AND UNLOADED IN COASTWISE SHIPPING, 1980

	Loaded				Unloaded			
	Atlantic	Great Lakes	Pacific	Total	Atlantic	Great Lakes	Pacific	Total
	(tonnes)							
Metallic minerals								
Aluminum and bauxite ores	12 588	-	-	12 588	-	12 588	-	12 588
Copper ore and concentrates	24 322	-	-	24 322	24 322	-	-	24 322
Iron ore and concentrates	5 793 757	1 534 046	281	7 328 084	1 900 998	5 426 805	281	7 328 084
Titanium ore	2 585 946	-	-	2 585 946	2 585 946	-	-	2 585 946
Zinc ore and concentrates	33 482	-	14 729	48 211	33 482	-	14 729	48 211
Ores and concentrates, nes	8 399	-	54	8 453	-	8 399	54	8 453
Iron and steel scrap	5 584	-	22 389	27 973	5 584	-	22 389	27 973
Total metals	8 464 078	1 534 046	37 453	10 035 577	4 550 332	5 447 792	37 453	10 035 577
Nonmetallic minerals								
Bentonite	-	-	-	-	-	-	-	-
Dolomite	-	82 286	-	82 286	82 286	-	-	82 286
Gypsum	576 948	-	30 781	607 729	491 309	85 639	30 781	607 729
Limestone	6 271	1 519 912	972 132	2 498 315	6 271	1 519 912	972 132	2 498 315
Phosphate rock	23 206	-	-	23 206	23 206	-	-	23 206
Salt	379 860	1 049 817	54 799	1 484 476	970 012	459 665	54 799	1 484 476
Sand and gravel	210 137	14 354	3 666 737	3 891 228	224 491	-	3 666 737	3 891 228
Stone, crude, nes	37	454 177	177 467	631 681	20 285	433 929	177 467	631 681
Sulphur in ores	10 685	19 788	2 931	33 404	30 473	-	2 931	33 404
Crude nonmetallic minerals, nes	103	-	749	852	103	-	749	852
Total nonmetals	1 207 247	3 140 334	4 905 596	9 253 177	1 848 436	2 499 145	4 905 596	9 253 177
Mineral fuels								
Coal, bituminous	51 555	2 600 191	162 627	2 814 373	164 132	2 650 241	-	2 814 373
Oil, crude	589 816	-	254 325	844 141	844 141	-	-	844 141
Total mineral fuels	641 371	2 600 191	416 952	3 658 514	1 008 273	2 650 241	-	3 658 514
Total crude minerals	10 312 696	7 274 571	5 360 001	22 947 268	7 407 041	10 597 178	4 943 049	22 947 268
Total, all commodities	22 273 694	26 649 317	33 838 283	82 761 294	32 284 128	17 087 258	33 389 908	82 761 294
Crude minerals as a per cent of all commodities	46.3	27.3	15.8	27.7	22.9	62.0	14.8	27.7

- Nil; nes Not elsewhere specified.

TABLE 63. CANADA, CRUDE MINERALS LOADED AND UNLOADED AT CANADIAN PORTS IN INTERNATIONAL SHIPPING TRADE, 1978-80

	1978		1979		1980P	
	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded
	(tonnes)					
Metallic minerals						
Alumina, bauxite ore	-	3 388 740	-	2 981 940	15 945	3 934 926
Copper ores and concentrates	678 868	35 208	709 050	-	587 352	26 223
Iron ore and concentrates	33 519 200	5 415 103	49 187 843	6 408 111	35 239 362	5 202 888
Lead ore and concentrates	98 224	-	118 655	-	74 749	5 092
Manganese ore	9 079	277 525	16 147	78 015	19 800	129 682
Nickel-copper ore and concentrates	44 685	18 517	64 568	624	71 262	1 463
Titanium ore	112 601	-	89 294	-	130 913	-
Zinc ore and concentrates	890 239	-	1 026 594	800	292 799	524
Ores and concentrates, nes	89 760	132 765	39 969	121 416	603 092	603 071
Iron and steel scrap	454 632	1 344	327 879	-	355 042	6 162
Nonferrous metal scrap	10 197	46	1 910	3 172	74 565	8 523
Slag, dross, residue	667 367	43 761	485 618	45 315	3 861	247
Total metals	36 574 852	9 313 009	52 067 527	9 639 393	37 468 742	9 918 801
Nonmetallic minerals						
Asbestos	316 566	1 637	453 339	306	891 831	10 682
Barite	46 950	-	1 981	3 625	-	36
Bentonite	9 551	155 331	-	294 799	14 317	151 649
China clay	-	45 463	-	48 321	93	19 059
Clay materials, nes	54	30 137	58 656	23 309	15 258	78 405
Dolomite	1 143 594	14 154	1 032 139	-	907 715	38 413
Fluorspar	9 979	214 974	23 567	143 842	-	145 838
Gypsum	5 472 451	112 536	5 505 915	147 189	4 733 725	175 759
Limestone	1 111 317	2 896 475	239 852	2 953 876	1 842 439	1 365 421
Phosphate rock	27 497	1 420 347	16	1 515 346	-	1 368 116
Potash (KCl)	1 717 967	27 297	2 703 604	-	3 843 013	32 723
Salt	1 590 162	968 154	1 649 916	899 917	1 879 269	991 855
Sand and gravel	233 535	1 297 394	38 959	884 694	78 678	804 079
Stone, crude, nes	74 656	9 771	118 508	36 307	235 805	548 113
Stone, crushed	18	-	-	33 290	100 974	330 230
Sulphur	2 412 609	5 171	3 287 497	4 990	5 011 131	43 550
Crude, nonmetallic minerals, nes	65 871	10 361	67 671	183	60 891	120 844
Total nonmetals	14 232 777	7 209 202	15 181 620	6 989 994	15 772 126	6 192 049

(continued on following page)

TABLE 63 (cont'd)

	1978		1979		1980P	
	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded
	(tonnes)					
Mineral fuels						
Coal bituminous	11 087 496	13 443 184	12 328 621	17 178 491	13 735 346	15 137 034
Coal, nes	-	247 295	-	197 976	1 093	13
Oil, crude	395 850	15 772 012	107 231	16 188 498	920 578	15 198 039
Total fuels	11 483 346	29 462 491	12 435 852	33 564 965	14 657 017	30 335 086
Total crude minerals	62 290 975	45 984 702	79 684 999	50 194 352	67 897 885	46 445 936
Total, all commodities	116 521 506	61 792 786	134 638 829	67 414 437	138 161 219	67 834 656
Crude minerals as a per cent of all commodities	53.5	74.4	59.2	74.5	49.1	68.5

P Preliminary; - Nil; nes Not elsewhere specified.

TABLE 64. CANADA, FABRICATED MINERAL PRODUCTS LOADED AND UNLOADED AT CANADIAN PORTS IN INTERNATIONAL SHIPPING TRADE, 1978-80

	1978		1979		1980P	
	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded
	(tonnes)					
Metallic products						
Aluminum	392 695	1 729	215 076	16 385	398 230	174 109
Copper and alloys	50 449	5 401	37 055	9 023	480 212	25 843
Ferroalloys	807	36 607	29 986	65 092	18 426	28 958
Iron and steel, primary	161 838	41 513	78 164	15 224	28 884	53 666
Iron, pig	505 384	2 562	221 359	19 350	468 308	20
Iron and steel, other						
bars and rods	16 818	126 638	17 545	214 058	343 034	103 467
castings and forgings	283	6 372	13 370	21 815	225 155	62 617
pipes and tubes	17 955	44 616	16 346	49 799	58 664	191 210
plates and sheet	106 243	249 725	108 606	490 158	1 438 646	442 783
rails and track material	78 051	4 877	76 751	12 198	99 726	7 028
structural shapes	58 569	301 058	69 596	342 272	97 094	69 109
wire	1 774	7 591	859	6 252	35 685	70 625
Lead and alloys	19 224	3	25 225	-	103 421	21 173
Nickel and alloys	1 562	515	2 212	915	52 520	12 385
Zinc and alloys	100 046	1 070	73 428	50	388 341	3 707
Nonferrous metals, nes	9 708	5 740	6 279	11 049	115 726	144 951
Metal fabricated basic products	7 135	20 755	6 713	11 682	470 038	607 827
Total metals	1 528 541	856 772	998 570	1 285 322	4 822 110	2 019 478
Nonmetallic products						
Asbestos basic products	28	-	1 642	-	5 349	1 345
Bricks and tiles, nes	9 342	6 654	23 880	12 469	38 490	25 126
Cement	1 542 891	137 458	2 829 351	61 244	1 704 324	75 130
Cement basic products	4 573	511	439	57	42 639	4 289
Drain tiles and pipes	-	30	-	-	5	104
Glass basic products	1 947	4 540	1 151	1 893	32 801	15 773
Nonmetallic mineral basic products	10 018	12 709	12 056	24 969	45 401	201 778
Fertilizers, nes	142 277	271 472	144 528	286 157	148 320	57 843
Total nonmetals	1 711 076	433 374	3 013 047	386 789	1 869 009	323 545

(continued on following page)

TABLE 64 (cont'd)

	1978		1979		1980P	
	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded
	(tonnes)					
Mineral fuel products						
Asphalts, road oils	27	2 635	129	14 475	16 366	14 001
Coal tar, pitch	4 169	69 322	13 004	69 959	9 819	42 693
Coke	169 401	680 497	740 027	1 085 687	1 059 856	1 319 773
Fuel oil	3 363 319	1 559 443	3 710 585	1 858 914	2 101 989	2 352 355
Gasoline	540 964	4 237	385 648	26 638	1 250 230	221 458
Lubricating oils and greases	708	22 590	1 683	9 446	355 314	457 521
Petroleum and coal products, nes	238 157	119 924	38 048	71 274	285 609	242 793
Total fuels	4 316 745	2 458 648	4 889 124	3 136 393	5 079 183	4 650 594
Total fabricated mineral products	7 556 362	3 748 794	8 900 741	4 808 504	11 770 302	6 993 617
Total, all commodities	116 521 506	61 792 786	134 638 829	67 414 437	13 816 219	67 834 656
Fabricated mineral products as a per cent of all commodities	6.5	6.1	6.6	7.1	8.5	10.3

P Preliminary; - Nil; nes Not elsewhere specified.

TABLE 65. CANADA, FINANCIAL STATISTICS OF CORPORATIONS IN THE MINING INDUSTRY[1], BY DEGREE OF NON-RESIDENT OWNERSHIP, 1980

	Corporations		Assets		Equity		Sales		Profits		Taxable Income	
	(number)	(%)	($million)	(%)	($million)	(%)	($million)	(%)	($million)	(%)	($million)	(%)
Metal mines												
Reporting corporations												
Canadian	77	56.6	13,699	68.7	7,292	67.3	6,340	60.3	2,187	66.9	860	70.4
Foreign	40	29.4	6,237	31.3	3,549	32.7	4,178	39.7	1,084	33.1	362	29.6
Unclassified	19	14.0	1	--	-	-	1	--	--	--	--	--
Total, all corporations	136	100.0	19,937	100.0	10,841	100.0	10,519	100.0	3,270	100.0	1,222	100.0
Mineral fuels												
Reporting corporations												
Canadian	628	56.9	18,100	46.7	7,625	41.0	4,892	25.8	2,078	34.3	389	14.8
Foreign	217	19.6	20,655	53.3	10,950	58.9	14,082	74.2	3,967	65.6	2,236	85.1
Unclassified	259	23.5	23	--	8	0.1	14	--	7	0.1	4	0.1
Total, all corporations	1,104	100.0	38,778	100.0	18,582	100.0	18,988	100.0	6,052	100.0	2,629	100.0
Other mining (including mining services)												
Reporting corporations												
Canadian	1,785	44.7	5,366	57.9	2,242	55.8	2,889	55.1	416	43.8	218	31.7
Foreign	218	5.5	3,743	40.4	1,739	43.2	2,193	41.8	520	54.8	450	65.4
Unclassified	1,986	49.8	158	1.7	41	1.0	161	3.1	13	1.4	20	2.9
Total, all corporations	3,989	100.0	9,266	100.0	4,082	100.0	5,243	100.0	949	100.0	688	100.0
Total mining												
Reporting corporations												
Canadian	2,490	47.6	37,165	54.7	17,159	51.3	14,121	40.6	4,681	45.6	1,467	32.3
Foreign	475	9.1	30,635	45.0	16,237	48.5	20,453	58.9	5,571	54.2	3,048	67.2
Unclassified	2,264	43.3	181	0.3	49	0.2	176	0.5	19	0.2	24	0.5
Total, all corporations	5,229	100.0	67,981	100.0	33,444	100.0	34,750	100.0	10,271	100.0	4,539	100.0

Note: Footnotes for Table 65 apply to this table. Figures may not add to totals due to rounding.
[1] Classification of the industry is the same as in Table 27.
-- Amount too small to be expressed; - Nil.

TABLE 66. CANADA, FINANCIAL STATISTICS OF CORPORATIONS IN THE MINERAL MANUFACTURING INDUSTRIES[1], BY DEGREE OF NON-RESIDENT OWNERSHIP, 1980

	Corporations[2]		Assets[4]		Equity[5]		Sales[6]		Profits[7]		Taxable Income[8]	
	(number)	(%)	($million)	(%)	($million)	(%)	($million)	(%)	($million)	(%)	($million)	(%)
Primary metal products												
Reporting corporations[2]												
Canadian	248	62.6	10,847	86.5	4,870	84.2	10,332	84.4	1,197	87.3	657	85.2
Foreign	47	11.9	1,682	13.4	911	15.7	1,898	15.5	173	12.6	113	14.7
Unclassified[3]	101	25.5	10	0.1	3	0.1	18	0.1	1	0.1	1	.1
Total, all corporations	396	100.0	12,539	100.0	5,785	100.0	12,247	100.0	1,371	100.0	771	100.0
Nonmetallic mineral products												
Reporting corporations[2]												
Canadian	776	50.9	1,749	28.6	574	22.8	1,908	38.6	87	21.2	70	27.6
Foreign	93	6.1	4,304	70.4	1,939	76.9	2,943	59.6	321	78.4	179	70.5
Unclassified[3]	657	43.0	58	1.0	9	0.3	91	1.8	2	0.4	5	1.9
Total, all corporations	1,526	100.0	6,111	100.0	2,522	100.0	4,942	100.0	409	100.0	254	100.0
Petroleum and coal products												
Reporting corporations[2]												
Canadian	33	58.9	6,949	30.2	3,454	26.5	4,494	18.0	762	23.0	287	..
Foreign	17	30.4	16,092	69.8	9,575	73.5	20,489	82.0	2,546	77.0	1,997	..
Unclassified[3]	6	10.7	1	--	-	-	1	--	--	--	x	x
Total, all corporations	56	100.0	23,041	100.0	13,029	100.0	24,984	100.0	3,308	100.0	x	x
Total mineral manufacturing industries												
Reporting corporations[2]												
Canadian	1,057	53.5	19,545	46.9	8,898	41.7	16,734	39.7	2,046	40.2	1,014	..
Foreign	157	7.9	22,078	53.0	12,425	58.2	25,330	60.1	3,040	59.7	2,289	..
Unclassified[3]	764	38.6	69	0.1	12	0.1	110	0.2	3	0.1	x	x
Total, all corporations	1,978	100.0	41,691	100.0	21,336	100.0	42,173	100.0	5,088	100.0	x	x

[1] Classification of industries is the same as in Table 28. [2] Corporations reporting under the Corporations and Labour Unions Returns Act. A corporation is considered to be foreign controlled if 50% or more of its voting rights are known to be held outside Canada, and/or by one or more Canadian corporations which are, in turn, foreign controlled. Each corporation is classified according to the percentage of its voting rights which are owned by non-residents, either directly or through other Canadian corporations, and the whole of the corporation is assigned to this particular degree of foreign ownership. [3] Corporations exempt from reporting under the Corporations and Labour Unions Returns Act. These include corporations reporting under other acts, small companies and corporations and non-profit organizations. [4] Included are cash, marketable securities, accounts receivable, inventories, fixed assets, investments in affiliated corporations and other assets. The amounts tabulated are those shown on the balance sheets of corporations after deducting allowances for doubtful accounts, amortization, depletion and depreciation. [5] Equity represents the shareholders' interest in the net assets of the corporation and includes the total amount of all issued and paid-up share capital, earnings retained in the business and other surplus accounts such as contributed and capital surplus. [6] For non-financial corporations, sales are gross revenues from non-financial operations. For financial corporations sales include income from financial as well as non-financial sources. [7] The net earnings from operations, investment income and net capital gains. Profits are tabulated after deducting allowances for amortization, depletion and depreciation, but before income tax provisions or declaration of dividends. [8] Taxable income figures are as reported by corporations prior to assessment by the Department of National Revenue. They include earnings in the reference year after the deduction of applicable losses of other years.
-- Amount too small to be expressed; x Confidential; .. Not available; - Nil.

TABLE 67. CANADA, FINANCIAL STATISTICS OF CORPORATIONS IN NON-FINANCIAL INDUSTRIES, BY MAJOR INDUSTRY GROUP AND BY CONTROL, 1979 AND 1980

	Agriculture, forestry, fishing and trapping		Mines Quarries & Oil Wells		Manufacturing		Construction		Transportation, communication and other utilities		Trade		Services		Total	
	1979	1980P	1979	1980P	1979	1980P	1979	1980P	1979	1980P	1979	1980P	1979	1980P	1979	1980P
	(number)															
Number of corporations																
Canadian control	6,943	8,338	2,074	2,490	15,143	16,592	14,189	15,829	5,255	5,888	39,655	44,550	18,186	21,022	101,445	114,709
Foreign control	116	104	516	475	2,280	2,107	232	205	337	307	2,141	1,953	720	635	6,342	5,786
Other corporations	9,418	10,027	2,143	2,264	16,719	17,291	35,317	38,048	11,775	12,651	67,995	70,371	64,180	69,326	207,547	219,978
Total corporations	16,477	18,469	4,733	5,229	34,142	35,990	49,738	54,082	17,367	18,846	109,791	116,874	83,086	90,983	315,334	340,473
	($ million)															
Assets																
Canadian control	4,936	6,395	27,998	37,165	62,545	74,272	14,623	16,599	93,801	107,994	48,651	55,847	19,796	23,446	272,349	321,718
Foreign control	295	332	28,027	30,635	62,423	68,791	2,116	2,108	5,798	5,140	13,807	14,729	4,126	4,724	116,592	126,458
Other corporations	887	937	168	181	1,311	1,354	2,244	2,366	837	908	4,943	5,138	3,798	4,104	14,188	14,989
Total corporations	6,118	7,664	56,192	67,981	126,279	144,416	18,983	21,073	100,436	114,042	67,402	75,714	27,720	32,274	403,129	463,165
Equity																
Canadian control	1,496	1,966	13,532	17,159	25,066	28,738	3,404	3,767	24,781	30,112	14,318	16,458	4,894	5,901	87,490	104,100
Foreign control	111	106	14,876	16,237	30,671	34,827	697	692	2,177	1,762	4,701	5,138	1,529	1,727	54,761	60,489
Other corporations	204	206	41	49	268	260	510	531	168	168	1,180	1,154	906	932	3,277	3,301
Total corporations	1,811	2,279	28,448	33,444	56,004	63,824	4,610	4,991	27,126	32,042	20,199	22,750	7,329	8,560	145,527	167,891
Sales																
Canadian control	4,665	5,689	10,885	14,121	81,655	95,488	20,984	24,033	37,533	44,426	122,604	141,266	18,027	22,009	296,354	347,033
Foreign control	250	289	18,895	20,453	95,986	100,509	2,572	2,670	3,624	3,265	36,478	39,854	4,827	5,464	162,633	172,505
Other corporations	935	1,020	155	176	2,396	2,522	4,519	4,927	1,296	1,430	10,166	10,678	5,854	6,505	25,323	27,259
Total corporations	5,851	6,998	29,936	34,750	180,037	198,520	28,075	31,630	42,452	49,122	169,250	191,798	28,709	33,979	484,309	546,797
Profits																
Canadian control	417	514	3,660	4,681	6,750	6,945	819	981	4,091	4,551	4,853	5,194	1,494	1,765	22,084	24,630
Foreign control	31	22	5,052	5,571	7,364	8,093	198	140	502	454	1,088	1,270	542	623	14,778	16,173
Other corporations	84	86	10	19	100	101	159	195	53	65	350	364	457	515	1,213	1,345
Total corporations	533	622	8,722	10,271	14,213	15,139	1,176	1,316	4,646	5,070	6,292	6,828	2,493	2,902	38,075	42,148

Note: Figures may not add to totals due to rounding.
P Preliminary.

TABLE 68. CANADA, CAPITAL AND REPAIR EXPENDITURES IN MINING[1] AND MINERAL MANUFACTURING INDUSTRIES, 1980-1982

	1980			1981P			1982[f]		
	Capital	Repair	Total	Capital	Repair	Total	Capital	Repair	Total
					($ million)				
Mining industry									
Metal mines									
Gold	160.9	34.7	195.6	360.0	39.8	399.8	311.5	45.3	356.8
Silver-lead-zinc	228.0	68.4	296.4	239.0	85.3	324.3	190.8	100.8	291.6
Copper-gold-silver	490.9	235.2	726.1	434.5	267.4	701.9	285.7	272.7	558.4
Iron	168.0	337.2	505.2	200.8	323.8	524.6	218.8	357.4	576.2
Other metal mines	528.5	229.5	758.0	529.5	235.8	765.3	657.5	248.8	906.3
Total metal mines	1,576.3	905.0	2,481.3	1,763.8	952.1	2,715.9	1,664.3	1,025.3	2,689.3
Nonmetal mines									
Asbestos	88.2	113.4	201.6	73.1	85.4	158.5	79.7	93.8	173.5
Other nonmetal mines[2]	525.8	312.2	838.0	978.8	319.9	1,298.7	1,312.2	369.2	1,681.4
Total nonmetal mines	614.0	393.1	425.6	1,051.9	382.5	405.3	1,391.9	463.0	1,854.7
Mineral fuels									
Oil, crude and gas[3]	6,253.4	941.2	7,194.6	6,621.3	1,185.1	7,806.4	8,398.0	1,278.7	9,676.7
Total mining industries	8,443.7	2,271.8	10,715.5	9,437.0	2,542.5	11,979.5	11,454.2	2,766.7	14,220.9
Mineral manufacturing									
Primary metal industries									
Iron and steel mills	584.2	709.5	1,293.7	686.1	735.6	1,421.7	733.2	931.1	1,664.3
Steel pipe and tube mills	59.9	48.4	108.3	171.1	66.9	238.0	249.1	73.8	322.9
Iron foundries	19.7	21.0	40.7	25.9	21.6	47.5	27.0	22.6	49.6
Smelting and refining	566.0	303.5	869.5	545.9	315.9	861.8	728.5	340.3	1,068.8
Aluminum rolling, casting and extruding	28.7	18.5	47.2	34.0	24.5	58.5	18.7	30.0	48.7
Copper and copper alloy rolling, casting and extruding	14.5	4.6	19.1	28.2	6.0	34.2	21.8	5.9	27.7
Metal rolling, casting and extruding	16.1	15.1	31.2	17.3	12.5	29.8	13.3	15.6	28.9
Total primary metal industries	1,289.1	1,120.6	2,409.7	1,508.5	1,183.0	2,691.5	1,791.6	1,419.3	2,210.9
Nonmetallic mineral products									
Cement	121.0	63.8	184.8	130.2	69.2	199.4	76.5	83.3	159.8
Stone products	2.4	1.3	3.7	3.9	0.9	4.8	3.6	1.0	4.6
Concrete products	30.5	31.8	62.3	21.0	30.5	51.5	17.8	28.5	46.3
Ready-mix concrete	40.7	48.5	89.2	40.8	61.3	102.1	31.6	68.1	99.7

Clay products	9.1	8.9	18.0	16.0	11.0	27.0	13.1	11.2	24.3
Glass and glass products	51.1	16.8	67.9	50.3	19.4	69.7	47.4	19.5	67.0
Abrasives	13.0	16.0	29.0	27.1	18.6	45.7	19.3	18.2	37.5
Lime	0.9	1.8	2.7	2.5	2.2	4.7	2.5	2.4	4.9
Other nonmetallic mineral products	51.0	41.6	92.6	56.8	42.1	98.9	54.6	48.0	102.6
Total nonmetallic mineral products	319.7	230.5	550.2	348.6	255.2	603.8	266.5	280.2	546.7
Petroleum and coal products	324.7	266.7	591.4	615.8	283.7	899.5	994.0	355.5	1,349.5
Total mineral manufacturing industries	1,933.5	1,617.8	3,551.3	2,472.9	1,721.9	4,194.8	3,052.1	2,055.0	5,107.1
Total mining and mineral manufacturing industries	10,377.2	3,889.6	14,266.8	11,909.9	4,264.4	16,174.3	14,506.3	4,821.7	19,328.0

[1] Does not include cement, lime and clay products (domestic clay) manufacturing, smelting and refining. [2] Includes coal mines, gypsum, salt, potash and miscellaneous nonmetal mines and quarrying. [3] The total of capital expenditures shown under "petroleum and gas" is equal to the total capital expenditure under the column entitled "petroleum and natural gas extraction" and under the column "natural gas processing plants" of Table 70.

P Preliminary; f Forecast.

TABLE 69. CANADA, CAPITAL AND REPAIR EXPENDITURES IN THE MINING INDUSTRY[1], 1976-1982

	1976	1977	1978	1979	1980	1981P	1982f
				($ million)			
Metal mines							
Capital							
Construction	597.6	626.8	407.3	606.4	1,109.1	1,244.6	1,149.9
Machinery	305.3	352.0	169.3	281.6	467.2	519.2	514.4
Total	902.9	978.8	576.6	888.0	1,576.3	1,763.8	1,664.3
Repair							
Construction	61.5	63.1	53.7	70.2	137.3	104.3	110.1
Machinery	521.6	536.7	487.6	632.1	767.7	847.8	914.9
Total	583.1	599.8	541.3	702.3	905.0	952.1	1,025.0
Total capital and repair	1,486.0	1,578.6	1,117.9	1,590.3	2,481.3	2,715.9	2,689.3
Nonmetal mines[2]							
Capital							
Construction	161.3	214.8	187.5	248.8	346.4	617.1	836.3
Machinery	214.6	225.8	236.4	202.6	267.6	434.8	555.6
Total	375.9	440.6	423.9	451.4	614.0	1,051.9	1,391.9
Repair							
Construction	20.0	20.8	18.2	14.6	32.5	22.8	25.3
Machinery	226.2	273.2	289.1	332.5	393.1	382.5	437.7
Total	246.2	294.0	307.3	347.1	425.6	405.3	463.0
Total capital and repair	622.1	734.6	731.2	798.5	1 039.6	1 457.0	1 854.7
Mineral fuels							
Capital							
Construction	1,598.0	1,998.0	2,520.9	3,820.3	5,453.1	5,691.7	7,241.9
Machinery	564.1	447.5	382.0	494.9	800.3	929.6	1,156.1
Total	2,162.1	2,445.5	2,902.9	4,315.2	6,253.4	6,621.3	8,398.0
Repair							
Construction	287.4	318.3	389.6	444.1	627.6	661.9	753.3
Machinery	82.9	101.2	100.2	242.1	313.6	523.2	525.4
Total	370.3	419.5	489.8	686.2	941.2	1,185.1	1,278.7
Total capital and repair	2,532.4	2,865.0	3,392.7	5,001.4	7,194.6	7,806.4	9,676.7
Total mining							
Capital							
Construction	2,356.9	2,839.6	3,115.7	4,675.5	6,908.6	7,553.4	9,228.1
Machinery	1,084.0	1,025.3	787.7	979.1	1,535.1	1,883.6	2,226.1
Total	3,440.9	3,864.9	3,903.4	5,654.6	8,443.7	9,437.0	11,454.2
Repair							
Construction	368.9	402.2	461.5	528.9	797.4	789.0	888.7
Machinery	830.7	911.1	876.9	1,206.7	1,474.4	1,753.5	1,878.0
Total	1,199.6	1,313.3	1,338.4	1,735.6	2,271.8	2,542.5	2,766.7
Total capital and repair	4,640.5	5,178.2	5,241.8	7,390.2	10,715.5	11,979.5	14,220.9

[1] Does not include cement, lime and clay products (domestic clays) manufacturing, smelting and refining. [2] Includes coal mines, asbestos, gypsum, salt, potash, miscellaneous non-metals, quarrying and sand pits.

P Preliminary; f Forecast.

TABLE 70. CANADA, CAPITAL AND REPAIR EXPENDITURES IN THE MINERAL MANUFACTURING INDUSTRIES[1], 1976-1982

	1976	1977	1978	1979	1980	1981P	1982f
				($ million)			
Primary metal industries[2]							
Capital							
Construction	144.8	171.2	130.7	153.4	328.2	318.3	385.3
Machinery	496.1	549.1	475.4	621.1	960.9	1,190.2	1,406.3
Total	640.9	720.3	606.1	774.5	1,289.1	1,508.5	1,791.6
Repair							
Construction	63.2	85.3	80.8	87.6	122.1	133.1	147.3
Machinery	632.4	662.8	780.1	887.7	998.5	1,049.9	1,272.0
Total	695.6	748.1	860.9	975.3	1,120.6	1,183.0	1,419.3
Total capital and repair	1,336.5	1,468.4	1,467.0	1,749.8	2,409.7	2,691.5	3,210.9
Nonmetallic mineral products[3]							
Capital							
Construction	46.6	63.3	62.0	102.0	70.0	66.6	39.7
Machinery	195.4	215.5	217.9	293.5	249.7	282.0	226.8
Total	242.0	278.8	279.9	395.5	319.7	348.6	266.5
Repair							
Construction	15.4	16.1	17.5	20.2	16.7	24.4	27.1
Machinery	164.9	169.5	190.3	206.1	213.8	230.8	253.1
Total	180.3	185.6	207.8	226.3	230.5	255.2	280.2
Total capital and repair	422.3	464.4	487.7	621.8	550.2	603.8	546.7
Petroleum and coal products							
Capital							
Construction	255.9	268.2	215.6	180.0	215.6	455.4	732.2
Machinery	88.3	98.4	99.5	94.0	109.1	160.4	261.8
Total	344.2	366.6	315.1	274.0	324.7	615.8	994.0
Repair							
Construction	101.2	125.7	117.5	158.1	190.5	203.5	253.5
Machinery	35.8	45.8	57.4	61.3	76.2	80.2	102.0
Total	137.0	171.5	174.9	219.4	266.7	283.7	355.5
Total capital and repair	481.2	538.1	490.0	493.4	591.4	899.5	1,349.5
Total mineral manufacturing industries							
Construction	447.3	502.7	408.3	435.4	613.8	840.3	1,157.2
Machinery	779.8	863.0	792.8	1,008.6	1,319.7	1,632.6	1,894.9
Total	1,227.1	1,365.7	1,201.1	1,444.0	1,933.5	2,472.9	3,052.1
Repair							
Construction	179.8	227.1	215.8	256.9	329.3	361.0	427.9
Machinery	833.1	878.1	1,027.8	1,155.1	1,288.5	1,360.9	1,627.1
Total	1,012.9	1,105.2	1,243.6	1,412.0	1,617.8	1,721.9	2,055.0
Total capital and repair	2,240.0	2,470.9	2,444.7	2,865.0	3,551.3	4,194.8	5,107.1

[1] Industry groups are the same as in Table 28. [2] Includes smelting and refining. [3] Includes cement, lime and clay products manufacturing.
P Preliminary; f Forecast.

TABLE 71. CANADA, CAPITAL EXPENDITURES IN THE PETROLEUM, NATURAL GAS AND ALLIED INDUSTRIES[1], 1976-1982

	Petroleum and natural gas extraction[2]	Transportation including rail, water and pipelines	Marketing (chiefly outlets of oil companies)	Natural gas distribution	Petroleum and coal products industries	Natural gas processing plants	Total capital expenditures
				($ million)			
1976	1,998.8	337.3	164.9	182.3	344.2	163.3	3,190.8
1977	2,290.0	374.9	135.5	213.0	366.6	155.5	3,535.5
1978	2,684.1	312.4	145.6	246.6	315.1	218.8	3,922.6
1979	4,013.4	229.3	134.3	262.5	274.0	301.8	5,215.3
1980	5,744.2	602.1	205.2	386.4	324.7	311.5	7,574.1
1981P	6,094.6	1,778.7	251.8	432.5	615.8	435.7	9,609.1
1982[f]	7,592.3	2,407.7	334.2	627.4	994.0	698.6	12,654.2

[1] The petroleum and natural gas industries in this table include all companies engaged in whole or in part in oil and gas activities. [2] Does not include expenditures for geological and geophysical operations. See also Footnote 3 to Table 67.

P Preliminary; [f] Forecast.

POOR

QUALITY

ORIGINAL